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Genus-Group Names of Bees and Supplemental Family-Group Names¹

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ABSTRACT This paper includes an alphabetical list of generic and subgeneric names that have been proposed for bees, with bibliographic references and indications of type species. Synonymies are not indicated, but the major group (family, subfamily, tribe or sometimes merely "fossil") is indicated for each. Synonymies will be indicated in a future account of world bees. New nomenclatural details include the following: *Apis thoracica* Fabricius designated as type species of *Melandrena* Pérez; *Paracella* new subgenus of *Megachile*, with *M. semivenusta* Cockerell as type species, for *Paracella* Pasteels, a name proposed without designation of a type species; *Callistochlora* new name for *Callochlora* Moure, 1964, not Packard, 1864; *Gyrodromella* new name for *Gyrodroma* Thomson, 1872, not Klug, 1807; and *Lithurgus* Berthold, 1827, given preference over the French vernacular *Lithurge* Latreille, 1825. The list of family-group names in bees is corrected and up-dated.

Key words: Apoidea; Generic and Family names; Type species.

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INTRODUCTION

The last list of genus-group names of bees was that of Sandhouse (1943). Since that time many new taxa have been described; there were about 977 entries in her list, compared with about 2057 herein. It is of some interest to examine the entire list from the viewpoint of production of genus-group names or actual entries in the list, including *nomina nuda* and the like. From the initiation of Linnaean nomenclature until the end of 18th Century, five generic names were proposed for bees, *Andrena*, *Apis*, *Eucera*, *Hylaeus*, and *Nomada*. But for the first decade of the next century, 1800 to 1809, there are 66 entries. The result of a tabulation by decade, from 1800 to the present, is shown in Table 1. In a reevaluation in preparation, I expect to recognize about 867 genera and subgenera.

Melittologists are sometimes criticized for the extensive use of subgenera, because species-groups, named informally with species names, could be used instead of subgenera. Such a procedure would avoid burdening the literature with numerous subgeneric names with their associated formalities such as type species, problems of homonymy, etc. Such a criticism is justified for certain groups of bees, especially in certain regions of the world.

I believe strongly, however, that large genera are commonly practical and desirable. Nearly all biologists have some idea of what is meant by generic names like *Drosophila*, *Culex*, and *Anopheles*, and many would recognize major bee genera like *Andrena* or *Megachile*. If the subgenera of each of these were elevated to generic rank, the average biologist would often lose track of the sort of organism involved. For many large genera with hundreds or thousands of species, the choice is not between recognizing the genus with subgenera vs. the genus with species groups. It is between recognizing the genus with subgenera vs. several or many genera, because many of the current subgenera are quite different from one another, sometimes recognizable in flight, and many specialists prefer to recognize them as genera. I prefer to retain inclusive genera, for the reason indicated above. These decisions, however, are subjective regardless of one's views on systematic methodology. Some recent bee specialists have used generic names in much the same way that I would use tribal names. More, however, split "excessively," Robertson (1918b) being one of the first to be overtly and purposely a "splitter."

One of the advantages of subgenera is that they need not be cited, i.e., unlike genera, which are required, they

Table 1. Genus-group names proposed for bees, by decade.

Decade	Number of names	Decade	Number of names
1800-09	66	1900-09	232
1810-19	11	1910-19	115
1820-29	26	1920-29	92
1830-39	16	1930-39	153
1840-49	24	1940-49	150
1850-59	48	1950-59	167
1860-69	25	1960-69	281
1870-79	39	1970-79	141
1880-89	46	1980-89	210
1890-90	125	1990-96*	82

*Note that this covers only the period 1990-1996.

are optional parts of scientific names of organisms. Thus *Megachile (Eutricharaea) rotundata* can also be written *Megachile rotundata*. Anyone who wishes can simply ignore subgeneric names. It is fortunate that much of the activity of excessive splitters can therefore be ignored by those who wish to do so; this is more difficult when the taxa are called genera.

The section on family-group names is a supplement to an earlier account (Michener, 1986a) that dealt with the authorship and dating of names proposed from the subtribal to superfamily level. This section is limited to new names, proposed since 1986, and corrections relating to older names.

Abbreviations used are as follows: Code = International Code of Zoological Nomenclature; Commission = International Commission on Zoological Nomenclature.

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GENUS-GROUP NAMES

In this section, genus-group names are listed with authors, dates, and pages of publication, thus references to the Literature Cited. The type species and manner of designation of each are then indicated, including the bibliographic references in all cases of subsequent designation. Of course I have tried to list the earliest such type designa-

nation in each case; later type designations, sometimes not distinguishable from mere listing of the type species, have no nomenclatural significance and may have been missed or ignored. If a name was originally proposed as a subgenus, the genus under which it was placed is indicated in square brackets. Finally, for convenience of users, the cur-

rent tribe, subfamily, or family name is provided (in bold-face type) for each entry, following the classification put forward by Roig-Alsina and Michener (1993) and Alexander and Michener (1995).

I have cited the names of type species in their original combinations. This means that I have ignored the complexities that could have been cited when an author, in designating a type species, placed it in a genus different from the original one or cited an erroneous author. This policy is generally in accord with the Code, ed. 3, Art. 67d, f.

Of course there have been errors, especially probable printers' errors, from time to time. For example, Westwood (1840a) published *Caelioxys* instead of *Coelioxys*. Except when such errors have been repeated or have nomenclatural significance, I have not listed them. Also, nomina nuda that have not been recognized as relating to a particular taxon are omitted.

I follow Sandhouse (1943) in using the term monobasic to indicate that there was only one originally included species, and autobasic to mean that a replacement name automatically has the same type species as its antecedent, usually preoccupied, name. When a genus is monobasic and in the original publication the single species was also designated as the type species, I use only the expression "by original designation," since the positive action by the author of the name seems more significant than the mere fact that there was but one originally included species.

Sandhouse (1943) used the term isogenotypic for taxa having the same type species. Since genotype is no longer used to mean the type species of a genus, I have changed the term to isotypic. When two generic names are isotypic, they are objectively synonymous. Isotypic by synonymy, however, means that the taxa are the same only by synonymy of their type species, which is usually subjective. The synonymy of such generic names therefore may depend on the accuracy of the synonymy of the type species.

Sandhouse repeatedly cited "Blanchard, 1849" as a source of type designations. Thanks to Cowan, 1976 (see Blanchard, 1845–1849), we now know that the parts of this work (Cuvier's Disciples' edition) on bees were published in 1845, 1846, and 1847. When I first examined it, I concluded that this work did not contain type designations although a single species was listed for each genus in the explanations of the plates. However, as pointed out to me by Dr. D. B. Baker, the title page contains in small type, the notation "accompagné de planches gravées, représentant les types de tous les genres,...." Thus, types were designated, but as of the date of publication of the title pages, 1849. I indicate the year of publication of the plates in parentheses. The authors' names attached to species in Blanchard's explanations of plates are commonly wrong; as elsewhere, I have ignored such errors and cited the correct authors.

Another source of confusion has been two articles published in 1807 in Illiger's *Magazin für Insektenkunde*.

The first (Illiger, 1807) shows no author either in the table of contents of the volume or in the text itself, an indication that it was written by Illiger. The second (Klug, 1807b) is attributed to Klug in both places. The two articles were published simultaneously; page 199 of the first article is on the same leaf as page 200 of the second. Some of the same generic names were proposed in both articles. All of them have been attributed in the past to Klug, and Illiger's article in most cases credits Klug with such names. Given that publication was simultaneous, I have adjusted the references to retain Klug's authorship, in different ways in different cases because of differing treatments in the two articles concerned.

Westwood (1840a) listed a typical British species for each genus. These have been taken as type designations, in accordance with Opinion 71 of the Commission (1922). Westwood listed synonymous generic names in his accounts of many genera, often with the notation "p." for "part." It seems clear that he was merely listing synonyms and that his type designations did not apply to these synonymous names.

Méhelj's monumental work (1935) on paleartic *Hylaeus* included descriptions of various subgenera. When monobasic, such subgenera are valid, but those including more than one species are invalid because of his failure to designate a type species, a requirement after 1930 (Code, 3rd ed., Art. 13b). Popov (1939) rectified the situation by designating type species as needed, except for certain of Méhelj's subgenera which he (and subsequent authors) regarded as junior synonyms. Popov's format included a heading for a subgenus, followed by a list of synonyms, descriptive material, and then a statement of the type species. It is clear that his intention was to designate a type species for the subgenus indicated in the heading. Sandhouse (1943), however, considered that same species to be the type of each of the synonymized names, resulting in the same type species for more than one of Méhelj's subgenera. Popov's paper cannot be read to justify this; he did not designate type species for Méhelj's names that he considered synonyms. Sandhouse herself could be interpreted to have designated type species for the junior synonyms, although such types would not be species included under those names by Méhelj. Thus, for example, *Imperfecta* Sandhouse, 1943, would have as type species *Hylaeus brevicornis* Nylander (a species of *Dentigera*); it would not be the same as *Imperfecta* Méhelj, and therefore, not being accompanied by a description or relevant bibliographic reference, would be a nomen nudum. Moreover, Sandhouse's type designations do not validate these subgeneric names, since she considered these names to be junior synonyms and they were not adopted as the names of taxa before 1961 (Code, 3rd ed., Art. 11c). They thus remain invalid. The names involved are *Auricularia*, *Imperfecta*, *Pectinata*, *Pseudobranchiata*, and *Trichota*. All this has no effect whatever on the current nomenclature and I have included these names below only as proposed by Méhelj, not as attributed to Popov or Sandhouse.

Abda Sandhouse, 1943:521, replacement for *Anthedon* Robertson, 1900. Type species: *Melissodes compta* Cresson, 1878, autobasic. See *Anthedonia*. **Eucerini**.

Abromelissa Snelling and Brooks, 1985:23. Type species: *Melissa lendliana* Friese, 1910, by original designation. **Ericocidini**.

Abrupta Méhely, 1935:32, 137. Type species: *Hylaeus cornutus* Curtis, 1831, monobasic. Sandhouse (1943) attributed *Abrupta* to Popov (1939), perhaps because Méhely, while including only one species, listed another specific name as a synonym. She may thus have considered that Méhely included two species without designating a type. [Prosopis]. **Hylaeinae**.

Acalcaripes Pesenko, 1984:347. Type species: *Halictus patellatus* Morawitz, 1873, by original designation. [Halictus]. **Halictini**.

Acamptopoeum Cockerell, 1905a:320. Type species: *Camptopoeum trifasciatum* Spinola, 1851, sensu Cockerell, 1905a = *Camptopoeum submetallicum* Spinola, 1851, monobasic. Because of Cockerell's misidentification, the type species was designated as *Camptopoeum submetallicum* Spinola, 1851, by Commission Opinion 1759 (1994). **Panurginae**.

Acanthalictus Cockerell, 1924a:184. Type species: *Halictus dybowskii* Radoszkowski, 1877, by original designation. **Halictini**.

Acanthidium Michener and Griswold, 1994a:305. Type species: *Acanthidium batrae* Michener and Griswold, 1994 = *Dianthidium flavoclypeatum* Gupta, 1993, by original designation. **Anthidiini**.

Acanthomelecta Lieftinck, 1972:316. Type species: *Crocisa bicuspis* Stadelmann, 1898, by original designation. **Melectini**.

Acanthonomada Schwarz, 1966:383. Type species: *Nomada odontophora* Kohl, 1905, by original designation. **Nomadini**.

Acanthopus Klug, 1807, in Illiger, 1807:199; Klug, 1807b:226. Type species: *Apis splendida* Fabricius, 1793 = *Apis palmata* Olivier, 1789, monobasic. *Acanthopus* is consistently attributed to Klug in the literature. It was published in two consecutive articles in the same journal and thus simultaneously; the first was by Illiger, who, however, attributed the name to Klug; the second was by Klug. Dalla Torre (1896) listed both references under the species but attributed the generic name to Klug, and may therefore be regarded as the first reviser, and to have decided the question as to authorship of *Acanthopus*. **Ericocidini**.

Acanthosmia Thomson, 1872:233; no species. Species first included by Schmiedeknecht, 1885:21. Type species: *Osmia montivaga* Morawitz, 1872, by designation of Sandhouse, 1943:522. [Osmia]. **Osmiini**.

Acanthosmiades Titus, 1904b:101, incorrect subsequent spelling of *Acanthosmioides* Ashmead, 1899. **Osmiini**.

Acanthosmioides Ashmead, 1899a:76. Type species: *Osmia odontogaster* Cockerell, 1897, by original designation. **Osmiini**.

Acentron Mitchell, 1934:307. Type species: *Megachile albitarsis* Cresson, 1872, by original designation. [Megachile]. **Megachilini**.

Aceratosmia Schmiedeknecht, 1885:19. Type species: *Osmia emarginata* Lepeletier, 1841, by designation of Sandhouse, 1939:9. [Osmia]. **Osmiini**.

Aciandrena Warncke, 1968:62. Type species: *Andrena aciculata* Morawitz, 1886, by original designation. [Andrena]. **Andreninae**.

Ackmonopsis Brooks, 1988:508. Type species: *Anthophora mimadvena* Cockerell, 1916, by original designation. [Amegilla]. **Anthophorini**.

Acritocentris Snelling, 1974:36. Type species: *Centris ruthannae* Snelling, 1966, by original designation. [Centris]. **Centridini**.

Acrocoelioxys Mitchell, 1973: 71. Type species: *Coelioxys otomita* Cresson, 1878, by original designation. [Coelioxys]. **Megachilini**.

Acrosmia Michener, 1947:298. Type species: *Hoplitis plagiostoma* Michener, 1947, by original designation. [Hoplitis]. **Osmiini**.

Acroxylocopa Hurd and Moure, 1963:236. Type species: *Xylocopa capitata* Smith, 1854, by original designation. [Xylocopa]. **Xylocopini**.

Acunomia Cockerell, 1930, in Cockerell and Blair, 1930:11. Type species: *Nomia nortoni* Cresson, 1868, by original designation. [Nomia]. **Nomiinae**.

Adanthidium Moure, 1965:29. Type species: *Anthidium texanum* Cresson, 1878, by original designation. **Anthidiini**.

Addendella Mitchell, 1980:24. Type species: *Megachile addenda* Cresson, 1878, by original designation. [Megachile]. **Megachilini**.

Adventoribombus Skorikov, 1922a:25. Type species: *Apis sylvarum* Linnaeus, 1761, by designation of Yarrow, 1971:28. *Agrabombus* [sic] *adventor* Skorikov, 1914 = *B. filchnerae* Vogt, 1908, designated by Sandhouse, 1943:522, was not originally included. [Agrobombus]. Isotypic with *Thoracobombus*. **Bombini**.

Aeganopria Moure, 1949a:442. Type species: *Lonchopria nivosa* Vachal, 1909, by original designation. **Colletinae**.

Aenandrena Warncke, 1968:64. Type species: *Andrena aeneiventris* Morawitz, 1872, by original designation. [Andrena]. **Andreninae**.

Aethammobates Baker, 1994:155. Type species: *Aethammobates prionogaster* Baker, 1994, by original designation. **Ammobatoidini**.

Aethechlora Moure and Hurd, 1987:275. Type species: *Augochlora matucanensis* Cockerell, 1914, by original designation. [Augochlora]. **Augochlorini**.

Aframegilla Popov, 1950b:260. Type species: *Anthophora nubica* Lepeletier, 1841, by original designation. [Amegilla]. **Anthophorini**.

Afranthidium Michener, 1948a:24. Type species: *Hypanthidium halophilum* Cockerell, 1936 = *Anthidium reicherti* Brauns, 1929, by original designation. [Anthidium]. **Anthidiini**.

Afrodielictus Pauly, 1984b:142. Type species: *Halictus belulus* Vachal, 1909, by original designation. [Lasioglossum]. **Halictini.**

Afrodufourea Ebmer, 1984:362. Type species: *Dufourea punica* Ebmer, 1976, by original designation. [Dufourea]. **Rophitinae.**

Afroheriades Peters, 1970:157. Type species: *Pseudoheriades primus* Peters, 1970, by original designation. [Pseudoheriades]. **Osmiini.**

Afromelecta Lieftinck, 1972:309. Type species: *Crocisa fulvohirta* Cameron, 1905, by original designation. **Melectini.**

Afronomia Pauly, 1990:126. Type species: *Nomia picardi* Gribodo, 1894, by original designation. **Nomiinae.**

Afrostelis Cockerell, 1931b:340. Type species: *Afrostelis tegularis* Cockerell, by original designation. **Anthidiini.**

Afroxylocopa Hurd and Moure, 1963:264. Type species: *Apis nigrita* Fabricius, 1775, by original designation. [Xylocopa]. **Xylocopini.**

Agaeischia Moure and Michener, 1955b:273. Type species: *Eucera patellicornis* Ducke, 1910, by original designation. [Gaesischia]. **Eucerini.**

Agandrena Warneke, 1968:56. Type species: *Apis agilissima* Scopoli, 1770, by original designation. [Andrena]. **Andreninae.**

Agapanthinus LaBerge, 1957:35. Type species: *Melissodes callophila* Cockerell, 1923, by original designation. **Eucerini.**

Agapostemon Guérin-Méneville, 1844:448. Type species: *Apis femoralis* Guérin-Méneville, 1844 = *Apis viridula* Fabricius, 1793, monobasic. [Andrena]. **Halictini.**

Agapostemonoides Roberts and Brooks, 1987:364. Type species: *Agapostemonoides hurdi* Roberts and Brooks, 1987, by original designation. **Halictini.**

Agathocera Sítíkov and Pesenko, 1988:87. Type species: *Eucera bidentata* Pérez, 1887, by original designation. [Eucera]. **Eucerini.**

Agephomonia Michener, 1981:26. Type species: *Nomia tsavoensis* Strand, 1920, by original designation. **Meganomiinae.**

Aglaa Schulz, 1906:258. Unjustified emendation of *Aglae* Lepeletier and Serville, 1825. **Euglossini.**

Aglae Lepeletier and Serville, 1825:105. Type species: *Aglae caerulea* Lepeletier and Serville, 1825, monobasic. **Euglossini.**

Aglaapis Cameron, 1901b:262. Type species: *Aglaapis brevipennis* Cameron, 1901, monobasic. **Dioxyini.**

Aglaomelissa Snelling and Brooks, 1985:25. Type species: *Melissa duckei* Friese, 1906, by original designation. **Ericrocidini.**

Agogenohylaeus Michener, 1965a:148. Type species: *Prosopis nubilosellus* Cockerell, 1910, by original designation. [Amphylaeus]. **Hylaeinae.**

Agribombus Skorikov, 1938a:145, unjustified emendation of *Agrobombus* Vogt, 1911. **Bombini.**

Agrobombus Vogt, 1911:52. Type species: *Apis agrorum* Fabricius, 1787 (not Schrank, 1781) = *Apis pascuorum* (Scopoli), 1763, by designation of Sandhouse, 1943:523. [Bombus]. **Bombini.**

Alayoapis Michener, 1966a:728. Type species: *Megacilissa nigrescens* Cresson, 1869, by original designation. [Caupolicana]. **Caupolicanini.**

Albocolletes Warneke, 1978:353. Type species: *Halictus albomaculatus* Lucas, 1849, by original designation. [Colletes]. **Colletinae.**

Alcidamea Cresson, 1864:385. Type species: *Alcidamea producta* Cresson, 1864, by designation of Michener, 1941:158. Isotypic with *Autochelostoma* by synonymy. **Osmiini.**

Alepidosceles Moure, 1947b:244. Type species: *Ancyloscelis imitatrix* Schrottky, 1909, by original designation. **Emphorini.**

Alfkenella Börner, 1919:168. Type species: *Apis quadrifasciata* Villers, 1789, by original designation. Isotypic with *Amegilla*. **Anthophorini.**

Alfkenomia Hirashima, 1956:33, replacement for *Epinomia* Alfken, 1939. Type species: *Nomia andrenoides* Vachal, 1903 = *Nomia andrei* Vachal, 1897, autobasic. **Nomiinae.**

Alfkenylaeus Snelling, 1985:13. Type species: *Hylaeus namaquensis* Cockerell, 1942, by original designation. [Hylaeus]. **Hylaeinae.**

Allanthidium Moure, 1947a:21. Type species: *Anthidium rodolfi* Ruiz, 1938, by original designation. **Anthidiini.**

Allochalicodoma Tkalcú, 1969:359. Type species: *Chalicodoma lefebvrei* Lepeletier, 1841, by original designation. [Chalicodoma]. Isotypic with *Heteromegachile*. **Megachilini.**

Allocelioxys Tkalcú, 1974a:340. Type species: *Coelioxys afra* Lepeletier, 1841, by original designation. Isotypic with *Coelioxita*. **Megachilini.**

Allodape Schulz, 1906:244, unjustified emendation of *Allodape* Lepeletier and Serville, 1825. **Allodapini.**

Allodape Lepeletier and Serville, 1825:18. Type species: *Allodape rufogastra* Lepeletier and Serville, 1825, monobasic. **Allodapini.**

Allodapula Cockerell, 1934c:220. Type species: *Allodape variegata* Smith, 1854, by original designation. [Allodape]. **Allodapini.**

Allodapulodes Michener, 1969:291. Type species: *Allodape palliceps* Friese, 1924, by original designation. [Allodapula]. **Allodapini.**

Allodioxys Popov, 1947:87. Type species: *Dioxyx schulthessi* Popov, 1936, by original designation. **Dioxyini.**

Allomacroteria Timberlake, 1960:131. Type species: *Perdita stephanomeriae* Timberlake, 1954, by original designation. [Perdita]. **Panurginae.**

Allomegachile Rebmann, 1970:42. Type species: *Megachile asiatica* Morawitz, 1875, by original designation. [Megachile]. Isotypic with *Euchalicodoma*. **Megachilini.**

Alloperdita Viereck, 1917:241. Type species: *Perdita novaeangliae* Viereck, 1907, monobasic. [Perdita]. **Panurginae**.

Allopsithyrus Popov, 1931a:136. Type species: *Apis barbutella* Kirby, 1802, by original designation. [Psithyrus]. **Bombini**.

Alloscirtetica Holmberg, 1909a:77, replacement for *Sciretetica* Holmberg, 1903. Type species: *Sciretetica antarctica* Holmberg, 1903, autobasic. Isotypic with *Holmbergiapis* and *Neoscirtetica*. **Eucerini**.

Allosmia Tkalcú, 1974a:331. Type species: *Osmia rufohirta* Latreille, 1811, by original designation. [Osmia]. **Osmiini**.

Alloxylocopta Maa, 1939:155. Type species: *Xylocopa appendiculata* Smith, 1852, by original designation. Nomen nudum because no characters given; see the Code, 3rd ed., Art. 13(a)(i). [Xylocopa]. **Xylocopini**.

Alloxylocopta Hurd and Moura, 1963:239. Type species: *Xylocopa appendiculata* Smith, 1852, by original designation. [Xylocopa]. **Xylocopini**.

Alocandrena Michener, 1986c:68. Type species: *Alocandrena porteri* Michener, 1986, by original designation. **Andreninae**.

Alphaneura Gray, 1832:pl. 111, alternative for *Aphaneura* Gray. Type species: *Aphaneura rufescens* Gray, autobasic. **Meliponini**.

Alpigenibombus Skorikov, 1938a:145, unjustified emendation of *Alpigenobombus* Skorikov, 1914. **Bombini**.

Alpigenobombus Skorikov, 1914a:128. Type species: *Alpigenobombus pulcherrimus* Skorikov, 1914 = *Bombus kashmirensis* Friese, 1909, by designation of Williams, 1991:65. *Bombus alpigenus* Morawitz, designated as the type species by Frison, 1927:54, was not an originally included species; see Williams, 1991. [Bombus]. **Bombini**.

Alpinibombus Skorikov, 1937:53, unjustified emendation of *Alpinobombus* Skorikov, 1914. **Bombini**.

Alpinobombus Skorikov, 1914a:122. Type species: *Apis alpinus* Linnaeus, 1758, by designation of Frison, 1927:66. [Bombus]. **Bombini**.

Alpinodufourea Ebner, 1984:360. Type species: *Dufourea alpina* Morawitz, 1865, by original designation. [Dufourea]. **Rophitinae**.

Amalthea Rafinesque, 1815:123, unjustified replacement for *Trigona* Jurine. Type species: *Apis amalthea* Olivier, 1789, autobasic and by absolute tautonomy. **Meliponini**.

Amblyapis Cockerell, 1910b:362. Type species: *Halictoides ilicifoliae* Cockerell, 1910, by original designation. [Halictoides]. **Dasypodinae**.

Amblys Klug, 1807, in Illiger, 1807:198; Klug, 1807b:226. Type species: *Apis bicornis* Linnaeus, 1758 = *Apis rufa* Linnaeus, 1758, by designation of Latreille, 1811:577. Monobasic in Illiger, 1807; Klug, 1807b was published simultaneously and listed two species. Isotypic with *Osmia* and *Ceratosmia*; isotypic with *Pachyosmia* by synonymy. **Osmiini**.

Amblyspatulariella Pittioni, 1950:80. Type species: *Prosopis sulphuripes* Gribodo, 1894, by original designation. [Prosopis]. **Hylaeinae**.

Amegachile Friese, 1909a:326. Type species: *Megachile sjoestedti* Friese, 1901 = *Megachile bituberculata* Ritsema, 1880, by designation of Cockerell, 1931c:167. Mitchell's (1934:298) designation of *Megachile nasicornis* Friese, 1903, as the type species is subsequent and therefore invalid. [Megachile]. **Megachilini**.

Amegilla Friese, 1897a:18, 24. Type species: *Apis quadrifasciata* Villers, 1789, by designation of Cockerell, 1931e:277. [Podalirius]. Isotypic with *Alfkenella*. **Anthophorini**.

Ammobates Latreille, 1809:169. Type species: *Ammobates rufiventris* Latreille, 1809, by designation of Latreille, 1810:439. *Ammobates bicolor* Lepeletier and Serville, 1825, designated by Blanchard, 1849:pl. 127 (1846), was not originally included. **Ammobatini**.

Ammobatoides Radoszkowski, 1868:82, not Schenck, 1869. Type species: *Phileremus abdominalis* Eversmann, 1852, by designation of Sandhouse, 1943:525. Isotypic with *Phiarus* and *Paidia*. **Ammobatoidini**.

Ammobatoides Schenck, 1869:349, not Radoszkowski, 1868. Type species: *Ammobates bicolor* Lepeletier and Serville, 1825 = *Epeolus punctatus* Fabricius, 1804, monobasic. Not replaced because synonym of *Ammobates*. Isotypic with *Phileremus* by synonymy. **Ammobatini**.

Amphipedia Michener and Moura, 1957:413. Type species: *Tetrapedia haeceli* Friese, 1910, by original designation. [Paratetrapedia]. **Tapinotaspidini**.

Amphyllaeus Michener, 1965a:147, 149. Type species: *Prosopis morosa* Smith, 1879, by original designation. **Hylaeinae**.

Anacolletes Michener, 1965a:59. Type species: *Lamprocolletes bimaculatus* Smith, 1879, by original designation. [Leioproctus]. **Colletinae**.

Analastoroides Rayment, 1950:20. Type species: *Analasteroides foveata* Rayment, 1950, by original designation. **Hylaeinae**.

Ananthidiellum Pasteels, 1969a:49. Type species: *Anthidium analle* Friese, 1914, by original designation. [Anthidiellum]. **Anthidiini**.

Ananthidium Urban, 1991:73. Type species: *Anthidium inerme* Friese, 1908, by original designation. **Anthidiini**.

Anchandrena LaBerge, 1986:496. Type species: *Andrena angustella* Cockerell, 1936, by original designation. [Andrena]. **Andreninae**.

Anchirhiza Michener, 1965a:147. Type species: *Palaeorhiza mandibularis* Michener, 1965, by original designation. [Palaeorhiza]. **Hylaeinae**.

Ancyla Lepeletier, 1841:294. Type species: *Ancyla oraniensis* Lepeletier, 1841, monobasic. Isotypic with *Plistotrichia* by synonymy. **Ancylini**.

Ancylandrena Cockerell, 1930d:5. Type species: *Andrena heterodoxa* Cockerell, 1930, not Pérez, 1903 = *A. atoposoma* Cockerell, 1934, monobasic. [Andrena]. **Andreninae**.

Ancylocopa Maa, 1954:198. Type species: *Xylocopa nitidiventris* Smith, 1878, by original designation. [Proxylocopa]. **Xylocopini**.

Ancylosceles Haliday, 1836:320, unjustified emendation of *Ancyloscelis* Latreille, 1829. **Emphorini**.

Ancyloscelis Berthold, 1827:466, nomen nudum. Latinization of *Ancyloscelis* Latreille, 1825:463. **Emphorini**.

Ancyloscelis Latreille, 1829:355, no included species; Haliday, 1836:320, one included species. Type species: *Ancyloscelis (sic) ursinus* Haliday, 1836, first included species. Blanchard, 1849:pl. 128 (1847), designated *Ancyloscelis brasiliensis* Blanchard, 1847, as type species but it was not the first included species. **Emphorini**.

Ancyloscelus Berthold, 1827:565, nomen nudum. **Emphorini**.

Ancylosoma Dalla Torre, 1896:206. This name appeared in the synonymy of *Xylocopa brasiliatorum* (Linnaeus), as “*Apis (Ancylosoma) Brasiliatorum* Blanchard, ...1849....” The Blanchard reference is to pl. 128 (1847), where *Ancylosoma* does not appear. Blanchard, however, did propose *Ancyloscelis brasiliensis* for a probable tapinotaspine bee on the plate and figure numbers listed by Dalla Torre. Evidently Dalla Torre erred in genus and species names, and in placing the reference among genuine *Xylocopa* references. The species name *Apis (Ancylosoma) brasiliatorum* Blanchard refers to no species; *Ancylosoma* Dalla Torre appeared only in synonymy under *Xylocopa*, associated with a nonexistent species, and therefore also is not available for use. [Apis]. **Not available**.

Andinaugochlora Eickwort, 1969:407. Type species: *Andinaugochlora micheneri* Eickwort, 1969, by original designation. **Augochlorini**.

Andineta Ashmead, 1899a:71, incorrect subsequent spelling for *Audinetia* Lepeletier, 1841. **Xylocopini**.

Andrena Fabricius, 1775:376. Type species: *Apis helvola* Linnaeus, 1758, by designation of Viereck, 1912:613. *Apis cineraria* Linnaeus, 1758, designated by Latreille, 1810:439; *Apis nitida* Fourcroy, 1785, designated by Curtis, 1826:pl. 129; and *Andrena funebris* Panzer, 1798 = *Apis albopunctata* Rossi, 1792, designated by Blanchard, 1849:pl. 125 (1847) were not originally included species. **Andreninae**.

Andrenella Hedicke, 1933:210. Type species: *Melitta minutula* Kirby, 1802, by original designation. [Andrena]. **Andreninae**.

Andrenopsis Cockerell, 1905a:363. Type species: *Andrenopsis flavorufus* Cockerell, 1905, monobasic. **Colletinae**.

Androgynella Cockerell, 1911c:313. Type species: *Megachile detersa* Cockerell, 1910, by original designation. **Megachilini**.

Andronicus Cresson, 1864:384. Type species: *Andronicus cylindricus* Cresson, 1864 (not *Osmia cylindrica* Giraud, 1857) = *Osmia spoliata* Provancher, 1888, monobasic. **Osmiini**.

Anepicharis Moure, 1945b:302. Type species: *Epicharis dejeanii* Lepeletier, 1841, by original designation. **Centridini**.

Angochlora Schrottky, 1901:213, incorrect subsequent spelling (repeated) for *Augochlora* Smith, 1853. **Augochlorini**.

Angochloropsis Schrottky, 1901:213, incorrect subsequent spelling for *Augochloropsis* Cockerell, 1897. [Angochlora]. **Augochlorini**.

Anhyllaeus Heider, 1926:184, unjustified emendation of *Anylaeus* Bridwell, 1919. **Hylaeinae**.

Annosmia Warncke, 1991b:307. Type species: *Osmia annulata* Latreille, 1811, by original designation. [Osmia]. **Osmiini**.

Anodonteutricharaea Tkalcú, 1993b:807. Type species: *Megachile larochei* Tkalcú, 1993 = *Megachile lanigera* Alfken, 1933, by original designation. [Megachile]. **Megachilini**.

Anodontobombus Krüger, 1917:61. Type species: *Apis hypnororum* Linnaeus, 1758, by designation of Williams, 1991:69. A sectional name treated as a genus-group name in view of the Code, 3rd ed., Art. 10(e). [Bombus]. Isotypic with *Pyrobombus*, *Uncobombus*, and *Hypnorobombus*. **Bombini**.

Anoediscelis Toro and Moldenke, 1979:131. Type species: *Oediscelis herbsti* Friese, 1906, by original designation. **Xeromelissinae**.

Anomalohesma Exley, 1977:39. Type species: *Brachyhesma scapata* Exley, 1977, by original designation. [Brachyhesma]. **Euryglossinae**.

Anthedon Robertson, 1900:53, not Agassiz, 1846. Type species: *Melissodes compta* Cresson, 1878, monobasic. See *Abda* and *Anthedonia*. **Eucerini**.

Anthedonia Michener, 1942:282, replacement for *Anthedon* Robertson, 1900. Type species: *Melissodes compta* Cresson, 1878, autobasic. **Eucerini**.

Anthemoessa Robertson, 1905:372, not Agassiz, 1846. Type species: *Anthophora abrupta* Say, 1837, by original designation. See *Melea*. **Anthophorini**.

Anthemois Robertson, 1903a:168, 172. Type species: *Megachile infragilis* Cresson, 1878 = *Apis centuncularis* Linnaeus, 1758, by original designation. Isotypic with *Megachile* by synonymy. **Megachilini**.

Anthemurgus Robertson, 1902b:321. Type species: *Anthemurgus passiflorae* Robertson, 1902, monobasic. **Panurginae**.

Anthidium Michener, 1948a:13, replacement for *Trichanthidium* Moure, 1947. Type species: *Anthidium subpetiolatum* Schrottky, 1910, autobasic. [Allanthidium]. **Anthidiini**.

Anthidiellum Cockerell, 1904c:3. Type species: *Trachusa strigata* Panzer, 1805, by original designation. [Anthidium]. Isotypic with *Cerianthidium*. **Anthidiini**.

Anthidioma Pasteels, 1984:34. Type species: *Anthidioma chalicodomoides* Pasteels, 1984, by original designation. **Anthidiini**.

Anthidium Fabricius, 1804:364. Type species: *Apis manicata* Linnaeus, 1758, by designation of Latreille, 1810:439. **Anthidiini**.

Anthidulum Michener, 1948a:19. Type species: *Dianthidium currani* Schwarz, 1933, by original designation. [Dianthidium]. **Anthidiini**.

Anthocharessa Gistel, 1850:82, unjustified replacement for *Andrena* Fabricius, 1775. Type species: *Apis helvola* Linnaeus, 1758, autobasic. **Andreninae**.

Anthocopa Lepeletier and Serville, 1825:314. Type species: *Apis papaveris* Latreille, 1799, monobasic. Isotypic with *Phyllotoma* and *Furcosmia*. **Osmiini**.

Anthodioctes Holmberg, 1887b:36. Nomen nudum. **Anthidiini**.

Anthodioctes Holmberg, 1903:435. Type species: *Anthodioctes megachilooides* Holmberg, 1903, by designation of Cockerell, 1927b:2. *A. dasygasterinus* Holmberg, 1903, designated as type species by Isensee, 1927:375, was not an originally included species name and is not a published name so far as known. **Anthidiini**.

Anthoglossa Smith, 1853:16. Type species: *Anthoglossa plumata* Smith, 1853, monobasic. **Colletinae**.

Anthomegilla Marikovskaya, 1976:688. Type species: *Anthophora arctica* Morawitz, 1883, by original designation. **Anthophorini**.

Anthophora Latreille, 1803:167, replacement for *Podalirius* Latreille, 1802. Type species: *Apis pilipes* Fabricius, 1775 = *Apis plumipes* Pallas, 1772, designated by Commission Opinion 151 (1944). *Apis retusa* Linnaeus, 1758, designated as type species by Curtis, 1831:pl. 357, is not an originally included species. **Anthophorini**.

Anthophorica Michener and Moure, 1957:433. Type species: *Melissodes pygmaea* Cresson, 1872, by original designation. [Exomalopsis]. **Exomalopsini**.

Anthophorites Heer, 1850:97. Type species: *Anthophorites mellona* Heer, 1850, designated by Cockerell, 1909d:315. **Fossil**.

Anthophoroides Cockerell and Cockerell, 1901:48. Type species: *Podalirius vallorum* Cockerell, 1896, by original designation. **Anthophorini**.

Anthophorula Cockerell, 1897d:44. Type species: *Anthophorula compactula* Cockerell, 1897, monobasic. **Exomalopsini**.

Anthrena Illiger, 1801:127, unjustified emendation of *Andrena* Fabricius, 1775. **Andreninae**.

Anthrenoides Ducke, 1907:368. Type species: *Anthrenoides alfkensi* Ducke, 1907 = *Protandrena meridionalis* Schrottky, 1906, monobasic. **Panurginae**.

Anylaeus Bridwell, 1919:129. Type species: *Nothylaeus aberrans* Bridwell, 1919, by original designation. [Nothylaeus]. **Hylaeinae**.

Aparatrigona Moure, 1951a:60. Type species: *Melipona impunctata* Ducke, 1916, by original designation. [Paratrigona]. **Meliponini**.

Apathus Newman, 1834:404 footnote, unjustified replacement for *Psithyrus* Lepeletier, 1832. Type species: *Apis rupestris* Fabricius, 1793, autobasic. **Bombini**.

Apeulaema Moure, 1950b:184. Type species: *Eulaema fasciata* Lepeletier, 1841 = *Centris cingulata* Fabricius, 1804, by original designation. [Eulaema]. **Euglossini**.

Aphalictus Cockerell, 1930e:40. Type species: *Parasphecodes briensis* Cockerell, 1916, by original designation. [Parasphecodes]. **Halictini**.

Aphaneura Gray, 1832:575. Type species: *Aphaneura rufescens* Gray, 1832, monotypic. See *Alphaneura* Gray, and Michener, 1995. **Meliponini**.

Aphelonomada Snelling, 1986:9. Type species: *Nomada cruralis* Moure, 1960, by original designation. [Hypochrotaenia]. **Nomadini**.

Apianthidium Pasteels, 1969a:41. Type species: *Anthidium apiforme* Meade-Waldo, 1914, by original designation. **Anthidiini**.

Apiaria Germar, 1839:210. Type species: *Apiaria dubia* Germar, 1839, monobasic. **Fossil**.

Apiarus Rafinesque, 1815:123, unjustified replacement for *Apis* Linnaeus, 1758. Type species: *Apis mellifera* Linnaeus, 1758, autobasic. **Apini**.

Apicula Rafinesque, 1814:27, unjustified replacement for *Apis* Linnaeus, 1758. Type species: *Apis mellifera* Linnaeus, 1758, autobasic. **Apini**.

Apis Linnaeus, 1758:343, 574. Type species: *Apis mellifica* Linnaeus, 1761 = *A. mellifera* Linnaeus, 1758, by designation of Latreille, 1810:439. **Apini**.

Apista Smith, 1861:148, not Hübner, 1816. Type species: *Apista opalina* Smith, 1861, monobasic. See *Egapista*. **Dissoglossitini**.

Apomelissodes LaBerge, 1956:1175. Type species: *Melissodes fimbriata* Cresson, 1878, by original designation. [Melissodes]. **Eucerini**.

Aporandrena Lanham, 1949:201. Type species: *Andrena coactipostica* Viereck, 1917, by original designation. [Andrena]. **Andreninae**.

Apotrigona Moure, 1961:233. Type species: *Trigona nebulata* Smith, 1854, by original designation. **Meliponini**.

Apoxylocopa Hurd and Moure, 1963:226. Type species: *Xylocopa lugubris* Gerstaecker, 1857, by original designation. [Xylocopa]. **Xylocopini**.

Archeriades Peters, 1978a:337. Type species: *Eriades larvatus* Friese, 1909, by original designation. **Osmiini**.

Archiaandrena LaBerge, 1986:482. Type species: *Andrena banksi* Malloch, 1917, by original designation. [Andrena]. **Andreninae**.

Archianthidium Mavromoustakis, 1939:91. Type species: *Anthidium laticeps* Morawitz, 1873, by original designation. **Anthidiini**.

Archihalictus Pauly, 1984b:132. Type species: *Halictus joffrei* Benoist, 1962, by original designation. **Halictini**.

Archimegachile Alfsken, 1933:56. Type species: *Megachile flavipes* Spinola, 1838, by original designation. [Megachile]. **Megachilini**.

Arctosmia Schmiedeknecht, 1885:21. Type species: *Megachile villosa* Schenck, 1853 (not *Apis villosa* Fabricius, 1775) = *Osmia platycera* Gerstaecker, 1869, monobasic. [Osmia]. Isotypic with *Lithosmia*. **Osmiini**.

Ardenthidium Pasteels, 1969a:103. Type species: *Anthidium ardens* Smith, 1879, by original designation. [Anthidium]. **Anthidiini**.

Argalictus Pesenko, 1984:348. Type species: *Hylaeus senilis* Eversmann, 1852, by original designation. [Halictus]. **Halictini.**

Argohesma Exley, 1969:528. Type species: *Argohesma eremica* Exley, 1969, by original designation. **Euryglossinae.**

Argyropile Mitchell, 1934:308. Type species: *Megachile parallela* Smith, 1853, by original designation. [Megachile]. **Megachilini.**

Argyroselenis Robertson, 1903c:284. Type species: *Triepelous minimus* Robertson, 1902, by original designation. **Epeolini.**

Arhysoceble Moure, 1948:335. Type species: *Arhysoceble xanthopoda* Moure, 1948, by original designation. **Tapinotaspidini.**

Arhysosage Brèthes, 1922:121. Type species: *Arhysosage johnsoni* Brèthes, 1922 = *Camptopoeum ochraceum* Friese, 1908, monobasic. Isotypic with *Ruiziella* and *Ruziapis* by synonymy. **Panurginae.**

Ariphanarthra Moure, 1951b:137. Type species: *Ariphanarthra palpalis* Moure, 1951, by original designation. **Augochlorini.**

Arogochila Michener, 1939:58. Type species: *Ashmeadiella timberlakei* Michener, 1936, by original designation. [Ashmeadiella]. **Osmiini.**

Asaropoda Cockerell, 1926b:216. Type species: *Saropoda bombiformis* Smith, 1854, by original designation. **Anthophorini.**

Ascirtetica Moure and Michener, 1955b:260. Type species: *Eucera herbsti* Friese, 1906, by original designation. [Alloscirtetica]. **Eucerini.**

Ashmeadiella Cockerell, 1897c:197. Type species: *Heriades opuntiae* Cockerell, 1897, by original designation. **Osmiini.**

Ashtonipsithyrus Frison, 1927:69. Type species: *Apatus ashtonii* Cresson, 1864, by original designation. [Psithyrus]. **Bombini.**

Asianthidium Popov, 1950a:315. Type species: *Anthidium glasunovi* Morawitz, 1894, by original designation. [Meganthidium]. **Anthidiini.**

Aspidosmia Brauns, 1926:208. Type species: *Osmia arnoldi* Brauns, 1926, monobasic. [Osmia]. **Osmiini.**

Asteronomada Broemeling, 1988:336. Type species: *Nomada adducta* Cresson, 1878, by original designation. [Nomada]. **Nomadini.**

Atopeucera Tkalcú, 1984b:71. Type species: *Eucera seminuda* Brullé, 1832, by original designation. [Eucera]. **Eucerini.**

Atoposmia Cockerell, 1935a:50. Type species: *Osmia triodonta* Cockerell, 1935, monobasic. [Osmia]. **Osmiini.**

Atrocinctobombus Skorikov, 1933b:244, nomen nudum. **Bombini.**

Atrodfourea Ebmer, 1984:360. Type species: *Rophites atrata* Warncke, 1979, by original designation. [Dufourea]. **Rophitinae.**

Atronomioides Pesenko, 1983:186. Type species: *Ceylalicus warnckeii* Pesenko, 1983, by original designation. [Ceylalicus]. **Nomioidinae.**

Atropium Pasteels, 1984:132. Type species: *Megachile atropos* Smith, 1853, by original designation. **Anthidiini.**

Atrosamba Michener, 1981:65. Type species: *Haplomelitta atra* Michener, 1981, by original designation. [Haplomelitta]. **Dasypodinae.**

Audinetia Ashmead, 1899a:97, incorrect subsequent spelling for *Audinetia* Lepeletier, 1841. **Xylocopini.**

Audinetia Lepeletier, 1841:203. Type species: *Apis latipes* Drury, 1773, by designation of Sandhouse, 1943:529. [Xylocopa]. Isotypic with *Platynopoda*. **Xylocopini.**

Augandrena LaBerge, 1986:557. Type species: *Andrena plumiscopa* Timberlake, 1951, by original designation. [Andrena]. **Andreninae.**

Augochlora Smith, 1853:73. Type species: *Halictus purus* Say, 1837, designated by Cockerell, 1923b:448. **Augochlorini.**

Augochlorella Sandhouse, 1937:66. Type species: *Augochlora gratiosa* Smith, 1853, by original designation. **Augochlorini.**

Augochlorodes Moure, 1958:53. Type species: *Augochlorodes turrifaciens* Moure, 1958, by original designation. **Augochlorini.**

Augochloropsis Cockerell, 1897b:4. Type species: *Augochlora subignita* Cockerell, 1897 = *Augochlora ignita* Smith, 1861, by original designation. *Augochlora spinolae* Cockerell, 1900, designated by Schrottky, 1909b:481, was not originally included. [Augochlora]. **Augochlorini.**

Auricularia Méhely, 1935:41, 147. Invalid because no type species was designated. Sandhouse's (1943:529) view that Popov (1939) designated a type species and thus validated the name is incorrect. [Prosopis]. **Hylaeinae.**

Ausanthidium Pasteels, 1969a:60. Type species: *Anthidiellum ausense* Mavromoustakis, 1934, by original designation. **Anthidiini.**

Australictus Michener, 1965a:165. Type species: *Halictus peraustralis* Cockerell, 1904, by original designation. [Lasioglossum]. **Halictini.**

Austrandrena Cockerell, 1906c:37. Type species: *Andrena modesta* Smith, 1879, by original designation. [Protandrena]. **Panurginae.**

Austrevylaeus Michener, 1965a:170. Type species: *Halictus sordidus* Smith, 1853, by original designation. [Lasioglossum]. **Halictini.**

Astrochile Michener, 1965a:202. Type species: *Megachile resinifera* Meade-Waldo, 1915, by original designation. [Chalicodoma]. **Megachilini.**

Austrodioxys Cockerell, 1916a:432. Type species: *Austrodioxys thomasi* Cockerell, 1916 = *Caenopropopsis crabronina* Holmberg, 1887, monobasic. Isotypic with *Caenopropopsis* by synonymy. **Caenopropopidini.**

Astromegachile Mitchell, 1943:666. Type species: *Megachile montezuma* Cresson, 1878, by original designation. [Megachile]. **Megachilini.**

Austronomia Michener, 1965a:156. Type species: *Nomia australica* Smith, 1875, by original designation. [Nomia]. **Nomiinae.**

Austropanurgus Toro, 1980:209. Type species: *Austropanurgus punctatus* Toro, 1980, monobasic. **Panurginae**.

Austropeponapis Hurd and Linsley, 1970:21. Type species: *Tetralonia melonis* Friese, 1925, by original designation. [Peponapis]. **Eucerini**.

Austroplebeia Moure, 1961:195. Type species: *Trigona cassiae* Cockerell, 1910, by original designation. **Meliponini**.

Austrosphexodes Michener, 1978b:327. Type species: *Sphecodes chilensis* Spinola, 1851, by original designation. [Sphecodes]. **Halictini**.

Austrostelis Michener and Griswold, 1994b:676. Type species: *Stelis aliena* Cockerell, 1919, by original designation. [Hoplostelis]. **Anthidiini**.

Autochelostoma Sladen, 1916a:270. Type species: *Autochelostoma canadensis* Sladen, 1916 = *Alcidamea producta* Cresson, 1864, monobasic. Isotypic with *Alcidamea* by synonymy. **Osmiini**.

Avandrena Warncke, 1968:31. Type species: *Andrena avara* Warncke, 1967, by original designation. [Andrena]. **Andreninae**.

Avpanurgus Warncke, 1972:70. Type species: *Panurgus flavofasciatus* Warncke, 1972, by original designation. [Panurgus]. **Panurginae**.

Axestotrigona Moure, 1961:237. Type species: *Melipona ferruginea* Lepeletier, 1836, by original designation. **Meliponini**.

Axillanthidium Pasteels, 1969a:39. Type species: *Axillanthidium axillare* Pasteels, 1969 = *Anthidium ducale* Morawitz, 1876, by original designation. **Anthidiini**.

Azecanthidium Michener and Ordway, 1964:70. Type species: *Azecanthidium xochipillium* Michener and Ordway, 1964, by original designation. **Anthidiini**.

Baana Sandhouse, 1943:530, replacement for *Ctenopoda* Ma, 1938. Type species: *Apis fenestrata* Fabricius, 1798, autobasic and by original designation. **Xylocopini**.

Baeocolletes Michener, 1965a:70. Type species: *Leioproctus calcaratus* Michener, 1965, by original designation. [Leioproctus]. **Colletinae**.

Barbata Méhely, 1935:32, 138, not Humphrey, 1797. Type species: *Prosopis friesei* Alfken, 1904, monobasic. [Prosopis]. See *Mehelya* and *Mehelyana*. **Hylaeinae**.

Bathanthidium Mavromoustakis, 1953:837. Type species: *Dianthidium bifoveolatum* Alfken, 1937, by original designation. [Dianthidium]. **Anthidiini**.

Bekilia Benoist, 1962:220. Type species: *Bekilia mimetica* Benoist, 1962, by original designation. **Osmiini**?

Belandrena Ribble, 1968b:221. Type species: *Andrena nemophilae* Ribble, 1968, by original designation. [Andrena]. **Andreninae**.

Bellanthidium Pasteels, 1969a:38. Type species: *Anthidium infuscatum* Erichson, 1835, by original designation. **Anthidiini**.

Belopria Moure, 1956:305. Type species: *Belopria zonata* Moure, 1956, by original designation. **Colletinae**.

Benanthis Pasteels, 1969a:61. Type species: *Anthidium madagascariensis* Benoist, 1963, by original designation. **Anthidiini**.

Berna Friese, 1911c:668. Type species: *Berna africana* Friese, 1911 (combination as though *Berna* were a genus) = *Megachile africanibia* Strand, 1912, monobasic. [Megachile]. **Megachilini**.

Betheliella Cockerell, 1924b:169. Type species: *Betheliella calocharti* Cockerell, 1924, monobasic. **Rophitinae**.

Biareolina Dours, 1873:288. Type species: *Andrena neglecta* Dours, 1873 = *Andrena lagopus* Latreille, 1809, designated by Sandhouse, 1943:530. **Andreninae**.

Biastes Panzer, 1806:239. Type species: *Tiphia brevicornis* Panzer, 1798, monobasic. Isotypic with *Rhineta* by synonymy. **Biastini**.

Biastoides Schenck, 1873:252. Type species: *Pasites punctatus* Schenck, 1870 = *Phileremus emarginatus* Schenck, 1853, monobasic. **Biastini**.

Bicolletes Friese, 1908b:341 (p. 11 in reprint). Type species: *Bicolletes neotropica* Friese, 1908, by designation of Cockerell, 1915:342. **Colletinae**.

Bicornelia Friese, 1899a:239. Type species: *Bicornelia serrata* Friese, 1899, monobasic. **Dissoglossini**.

Biglossa Friese, 1906c:374. Type species: *Biglossa thoracica* Friese, 1906, by designation of Cockerell, 1914:328. **Colletinae**.

Biglossidia Moure, 1948:313. Type species: *Biglossa chalybaea* Friese, 1906, by original designation. **Colletinae**.

Biluna Ma, 1938:276. Type species: *Xylocopa nasalis* Westwood, 1842, by original designation. [Xylocopa]. **Xylocopini**.

Binghamiella Cockerell, 1907c:235. Type species: *Sphecodes antipodes* Smith, 1853, monobasic. **Colletinae**.

Birkmania Viereck, 1909:50. Type species: *Birkmania andrenoides* Viereck, 1909 = *Panurginus polytrichus* Cockerell, 1909, by original designation. **Panurginae**.

Bluethgenia Pesenko, 1986a:136. Type species: *Halictus dynastes* Bingham, 1898, by original designation. [Lasioglossum]. **Halictini**.

Bombias Robertson, 1903a:176. Type species: *Bombias auricomus* Robertson, 1903 = *B. nevadensis auricomus* (Robertson), by original designation. Isotypic with *Boopobombus*. **Bombini**.

Bomboxylocopa Maa, 1939:155. Type species: *Xylocopa bombooides* Smith, 1879, by original designation. [Xylocopa]. **Xylocopini**.

Bombomelecta Patton, 1879b:370. Type species: *Melecta thoracica* Cresson, 1876, monobasic. **Melectini**

Bombus Latreille, 1802a:437. Type species: *Apis terrestris* Linnaeus, 1758, monobasic. A subsequent designation is *Apis muscorum* Linnaeus, 1758, by Westwood, 1840a:86; it was not an originally included species. Isotypic with *Bremus* Jurine, *Bremus* Panzer, *Leucobombus*, and *Terrestribombus*. **Bombini**.

Bombusoides Motschulsky, 1856:28. Type species: *Bombusoides mengei* Motschulsky, 1856, monobasic. **Fossil**.

Boopobombus Frison, 1927:62. Type species: *Bombias auricomus* Robertson, 1903 = *B. nevadensis auricomus* (Robertson), by designation of Williams, 1994:339. A sectional name that, according to the Code, 3rd ed., Art. 10(e), must be treated as a subgenus. Isotypic with *Bombias*. [*Bombus*]. **Bombini**.

Boreocoelioxys Mitchell, 1973:37. Type species: *Coelioxys rufitarsus* Smith, 1854, by original designation. [*Coelioxys*]. **Megachilini**.

Boreopsis Ikudome, 1991:790. Type species: *Hylaeus macilentus* Ikudome, 1989, by original designation. [*Hylaeus*]. **Hylaeinae**.

Bothranthidium Moure, 1947a:23. Type species: *Bothranthidium lauroi* Moure, 1947, by original designation. **Anthidiini**.

Brachyandrena Pittioni, 1948:54. Type species: *Andrena colletiformis* Morawitz, 1874, by original designation. [*Andrena*.] **Andreninae**.

Brachycephalapis Viereck, 1909:47. Type species: *Melitta californica* Viereck, 1909, by original designation. **Melittinae**.

Brachycephalibombus Williams, 1985:247. Type species: *Bombus brachycephalus* Handlirsch, 1888, by original designation. [*Bombus*]. **Bombini**.

Brachyglossa Friese, 1922a:577, not Boisduval, 1829. Type species: *Brachyglossa rufocacerulea* Friese, 1922, monobasic. See *Brachyglossula*. **Colletinae**.

Brachyglossula Hedicke, 1922:427, replacement for *Brachyglossa* Friese, 1922. Type species: *Brachyglossa rufocacerulea* Friese, 1922, autobasic. **Colletinae**.

Brachyhesma Michener, 1965a:112. Type species: *Euryglossina sulphurella* Cockerell, 1913, by original designation. **Euryglossinae**.

Brachymelecta Linsley, 1939a:458. Type species: *Melecta mucida* Cresson, 1879, by original designation. **Melectini**.

Brachymelissodes LaBerge, 1956:926. Type species: *Eucera cressonii* Dalla Torre, 1896, by original designation. [*Melissodes*]. **Eucerini**.

Brachynomada Holmberg, 1886b:233, 239, 272. Type species: *Brachynomada argentina* Holmberg, 1886, designated by Sandhouse, 1943:531. **Brachynomadini**.

Brachyspatulariella Pittioni, 1950:79. Type species: *Spatulariella heleneae* Pittioni, 1950, by original designation. [*Prosopis*]. **Hylaeinae**.

Branthidium Pasteels, 1969a:88. Type species: *Anthidium braunsi* Friese, 1904, by original designation. **Anthidiini**.

Brasilagapostemon Moure and Sakagami, 1984:4. Type species: *Pseudagapostemon fluminensis* Schrottky, 1911, monobasic. [*Pseudagapostemon*]. **Halictini**.

Braunsapis Michener, 1969:290. Type species: *Allodape facialis* Gerstaecher, 1857, by original designation. [*Allodape*]. **Allodapini**.

Bremus Jurine, 1801:164. Type species: *Apis terrestris* Linnaeus, 1758, by designation of Morice and Durrant, 1915:428. Invalidated by Commission Opinion 135, 1939. Isotypic with *Bremus* Panzer, *Bombus*, *Leucobombus*, and *Terrestribombus*. **Bombini**.

Bremus Panzer, 1804a:19. Type species: *Apis terrestris* Linnaeus, 1758, by designation of Benson, Ferrière and Richards, 1937:93. Sandhouse's (1943) subsequent designation of *Apis agrorum* Fabricius, 1787, as the type species is invalid. Panzer (1804a, dated 1801 by Benson, Ferrière and Richards) did not include *Apis terrestris*, but he did include *Bremus faciatus* Panzer. Because Benson, Ferrière and Richards list that name as a synonym of *Apis terrestris*, the latter was available for designation as type species of *Bremus* Panzer [see the Code, 3rd ed., Art. 69(a)(v)]. I follow Sandhouse (1943) in the dating of *Bremus* Panzer; the real date of publication could have been from 1801 to 1804. Isotypic with *Bombus*, *Bremus* Jurine, *Leucobombus*, and *Terrestribombus*. **Bombini**.

Bremus Kirby, 1837:272 footnote, not Panzer, 1804. Type species: *Apis rupestris* Fabricius, 1793, by designation of Milliron, 1961:59. Not replaced because a junior synonym of *Psithyrus*. Isotypic with *Psithyrus*. **Bombini**.

Brevineura Michener, 1965a:224. Type species: *Exoneura concinnula* Cockerell, 1913, by original designation. [*Exoneura*]. **Allodapini**.

Bythandrena Lanham, 1950:140, replacement for *Cryptandrena* Lanham, 1949. Type species: *Andrena carlini* Cockerell, 1901, autobasic. [*Andrena*.] **Andreninae**.

Bytinskia Mavromoustakis, 1954:269. Type species: *Bytinskia erythrogastera* Mavromoustakis, 1954, by original designation. **Osmiini**.

Cacosoma Smith, 1879:39, not Felder, 1874. Type species: *Cacosoma discolor* Smith, 1879, by original designation. See *Neocorynura*. **Augochlorini**.

Cadeguala Reed, 1892:234. Type species: *Colletes chilensis* Spinola, 1851 = *Colletes occidentalis* Haliday, 1836, by designation of Sandhouse, 1943:532. **Diphaglossinae**.

Cadegualina Michener, 1986b:187. Type species: *Bicornelia andina* Friese, 1925, by original designation. **Diphaglossinae**.

Caenaugochlora Michener, 1954:76. Type species: *Caenaugochlora macswaini* Michener, 1954, by original designation. **Augochlorini**.

Caenohalictus Cameron, 1903a:231. Type species: *Caenohalictus trichiothalmus* Cameron, 1903, monobasic. **Halictini**.

Caenonomada Ashmead, 1899a:68. Type species: *Caenonomada bruneri* Ashmead, 1899, by original designation. Isotypic with *Chacoana* by synonymy. **Tapinotaspidini**.

Caenoprosopina Roig-Alsina, 1987:312. Type species: *Caenoprosopina holmbergi* Roig-Alsina, 1987, by original designation. **Caenoprosopidini**.

Caenoprosopis Holmberg, 1886b:235, no included species; 1887a:22, one included species. Type species: *Caenoprosopis crabronina* Holmberg, 1887, first included species. Isotypic with *Austrodioryx* by synonymy. **Caenoprosopidini**.

Caerulosmia Zanden, 1988:123, nomen nudum.

Caerulosmia Zanden 1989:83. Type species: *Osmia gallarum* Spinola, 1808, by original designation. [Osmia]. **Osmiini**.

Caesarea Friese, 1911d:142. Type species: *Ammobates depressa* Friese, 1911, by designation of Sandhouse, 1943:532. [Ammobates]. **Ammobatini**.

Calchalictus Warncke, 1975b:99. Type species: *Apis calceata* Scopoli, 1763, by original designation. [Halictus]. **Halictini**.

Caliendra Gistel 1848:viii, unjustified replacement for *Chrysanthes* Perty, 1833. Type species: *Chrysanthes nitida* Perty, 1833 = *Apis dentata* Linnaeus, 1758, autobasic. Isotypic with *Exaerete* by synonymy. **Euglossini**.

Callalictus Michener, 1965a:170. Type species: *Parasphecodes tooloomensis* Cockerell, 1929, by original designation. [Lasioglossum]. **Halictini**.

Callandrena Cockerell, 1898b:186. Type species: *Panurgus manifestus* Fox, 1894, monobasic. **Andreninae**.

Callanthidium Cockerell, 1925a:365. Type species: *Anthidium illustre* Cresson, 1879, by original designation. **Anthidiini**.

Calleupetersia Cockerell, 1938:329. Type species: *Halictus lasureus* Friese, 1910, by original designation. **Halictini**.

Callimelissodes LaBerge, 1961:294. Type species: *Melissodes lupina* Cresson, 1878, by original designation. [Melissodes]. **Eucerini**.

Callinomada Rodeck, 1945:181. Type species: *Nomada antonita* Cockerell, 1909, by original designation. [Nomada]. **Nomadini**.

Calliopsisma Shinn, 1967:834. Type species: *Calliopsis rozeni* Shinn, 1967, by original designation. [Calliopsis]. **Panurginae**.

Calliopsis Smith, 1853:128. Type species: *Calliopsis andreniformis* Smith, 1853, by designation of Ashmead, 1899a: 85. **Panurginae**.

Callistochlora Michener, new name, replacement for *Callochlora* Moure, 1964b:269, not Packard, 1864. Type species: *Halictus chloris* Spinola, 1851, autobasic. When informed of the homonymy, Padre J. S. Moure suggested the name here proposed but asked that I publish it. **Augochlorini**.

Callobombus Dalla Torre, 1896:503, unjustified emendation of *Kallobombus* Dalla Torre, 1880. [Bombus]. **Bombini**.

Calloceratina Cockerell, 1924d:77. Type species: *Ceratina amabilis* Cockerell, 1897 = *C. exima* Smith, 1862, by original designation. [Ceratina]. **Ceratinini**.

Callochile Michener, 1962:27. Type species: *Megachile ustulatiformis* Cockerell, 1910 = *Apis mystacea* Fabricius, 1775, by original designation. [Megachile]. **Megachilini**.

Callochlora Moure, 1964b:269, not Packard, 1864. Type species: *Halictus chloris* Spinola, 1851, by original designation. See *Callistochlora*. **Augochlorini**.

Callocolletes Michener, 1965a:80. Type species: *Trichocolletes pulcherrimus* Michener, 1965, by original designation. [Trichocolletes]. **Colletinae**.

Callohesma Michener, 1965a:95. Type species: *Euryglossa calliopsisiformis* Cockerell, 1905, by original designation. [Euryglossa]. **Euryglossinae**.

Callomacroteria Timberlake, 1954:413. Type species: *Perdita maritima* Timberlake, 1954, by original designation. [Perdita]. **Panurginae**.

Callomegachile Michener, 1962:21. Type species: *Chalicodoma mystaceana* Michener, 1962, by original designation. [Chalicodoma]. **Megachilini**.

Callomelecta Cockerell, 1926c:621. Type species: *Callomelecta pendleburyi* Cockerell, 1926, by original designation. **Melectini**.

Callomelitta Smith, 1853:85. Type species: *Callomelitta picta* Smith, 1853, monobasic. **Colletinae**.

Callonychium Brèthes, 1922:120. Type species: *Callonychium argentinum* Brèthes, 1922, monobasic. **Panurginae**.

Calloprosopis Snelling, 1985:27. Type species: *Hylaeus magnificus* Cockerell, 1942, by original designation. **Hylaeinae**.

Callorhiza Hirashima, 1989:2. Type species: *Prosopis apicatus* Smith, 1863, by original designation. [Palaeorhiza]. **Hylaeinae**.

Callosphecodes Friese, 1909b:182. Type species: *Sphecodes ralunensis* Friese, 1909, monobasic. [Sphecodes]. **Halictini**.

Calloxylocopa Hurd and Moure, 1963:142. Type species: *Xylocopa tenuata* Smith, 1874, by original designation. [Xylocopa]. **Xylocopini**.

Calohoplitis Tkalcù, 1995:129. Type species: *Osmia laboriosa* Smith, 1878, by original designation. [Hoplitis]. **Osmiini**.

Calomelissa Hirashima and LaBerge, 1963, in Hirashima, 1963:241. Type species: *Andrena prostomias* Pérez, 1805, by original designation. [Andrena]. **Andreninae**.

Calospiloma Brèthes, 1909b:68 footnote. Type species: *Epeolus viperinus* Holmberg, 1886, by original designation. Isotypic with *Palinepeolus*; isotypic with *Isepeolus* by synonymy. **Isepeolini**

Calyptapis Cockerell, 1906a:41. Type species: *Calyptapis florissantensis* Cockerell, 1906, monobasic. **Fossil**.

Camargoia Moure, 1989a:72. Type species: *Camargoia camargoi* Moure, 1989, by original designation. **Meliponini**.

Campanularia Méhely, 1935:157, not Lamarck, 1816. Invalid because no type species was designated; also homonym. [Prosopis]. See *Paraprosopis*. **Hylaeinae**.

Camptopaeum Spinola, 1851:192, unjustified emendation of *Camptopoeum* Spinola, 1843. **Panurginae**.

Camptopoeum Spinola, 1843:139. Type species: *Prosopis frontalis* Fabricius, 1804, by original designation. **Panurginae**.

Campylogaster Dours, 1873:286. Type species: *Campylogaster fulvo-crustatus* Dours, 1873 = *Andrena erberi* Morawitz, 1871, designated by Sandhouse, 1943:534. **Andreninae**.

Canephora Friese, 1908b:94, not Hübner, 1822, replacement for *Corbicula* Friese, 1908. Type species: *Corbicula apiformis* Friese, 1908, autobasic. See *Canephorula*. **Eucerini**.

Canephorula Jörgensen, 1909:212, replacement for *Canephora* Friese, 1908. Type species: *Corbicula apiformis* Friese, 1908, autobasic. **Eucerini**.

Capanthidium Pasteels, 1969a:85. Type species: *Anthidium "capicole"* Friese, "lapsus for *capicola* Brauns, 1905, by original designation. **Anthidiini**.

Capicola Friese, 1911a:672. Type species: *Capicola braunsiana* Friese, 1911, monobasic. **Dasypodinae**.

Capicoloides Michener, 1981:83. Type species: *Capicola aliciae* Cockerell, 1932, by original designation. [Capicola]. **Dasypodinae**.

Caposmia Peters, 1984:378. Type species: *Osmia braunsi* Peters, 1984, by original designation. [Osmia]. **Osmiini**.

Carandrena Warncke, 1968:94. Type species: *Andrena aerinifrons* Dours, 1873, by original designation. [Andrena]. **Andreninae**.

Caranthophora Brooks, 1988:470. Type species: *Anthophora dufourii* Lepeletier, 1841, by original designation. [Anthophora]. **Anthophorini**.

Carinanthidium Pasteels, 1969a:42. Type species: *Megachile cariniventris* Friese, 1904, by original designation. **Anthidiini**.

Carinapis Stage, 1981, in Michener, 1981:98. Type species: *Hesperapis carinata* Stevens, 1919, by original designation. [Hesperapis]. **Dasypodinae**.

Carinella Pasteels, 1965:447, not Johnston, 1833. Type species: *Megachile torrida* Smith, 1853, by original designation. [Chalicodoma]. See *Carinula*. **Megachilini**.

Carinellum Pasteels, 1969a:80. Type species: *Anthidium ochrognathum* Alfken, 1932, by original designation. [Pseudoanthidium]. **Anthidiini**.

Carinorophites Warnecke, 1979:136. Type species: *Dufourea rufiventris* Friese, 1898, by original designation. [Rophites]. **Rophitinae**.

Carinula Michener, McGinley, and Danforth, 1994:174, replacement for *Carinella* Pasteels, 1965. Type species: *Megachile torrida* Smith, 1853, autobasic. [Megachile]. **Megachilini**.

Carloticola Moure and Urban, 1990:90. Type species: *Dianthidium paraguayense* Schrottky, 1908, by original designation. **Anthidiini**.

Catoceratina Vecht, 1952:30. Type species: *Ceratina perforatrix* Smith, 1879, by original designation. [Ceratina]. **Ceratinini**.

Caupolicana Spinola, 1851:212. Type species: *Caupolicana gayi* Spinola, 1851, designated by Sandhouse, 1943:534. **Caupolicanini**.

Caupolicania Schulz, 1906:238, unjustified emendation of *Caupolicana* Spinola, 1851. **Caupolicanini**.

Caupolicoides Michener, 1966a:725. Type species: *Caupolicana pubescens* Smith, 1879, by original designation. **Caupolicanini**.

Ceblurgus Urban and Moure, 1993:102. Type species: *Ceblurgus longipalpis* Urban and Moure, 1993, by original designation. **Rophitinae**.

Celeinandrena LaBerge and Hurd, 1965:188. Type species: *Andrena vinnula* LaBerge and Hurd, 1965, by original designation. [Andrena]. **Andreninae**.

Celetrigona Moure, 1950a:246. Type species: *Trigona longicornis* Friese, 1903, by original designation. [Hypotrigona]. **Meliponini**.

Cellaria Friese, 1913a:575, not Ellis and Solander, 1786. Type species: *Nomiooides arnoldi* Friese, 1913 = *Nomiooides somalica* Magretti, 1899, monobasic. [Nomiooides]. See *Cellariella*. **Nomiooidinae**.

Cellariella Strand, 1926:53, replacement for *Cellaria* Friese, 1913. Type species: *Nomiooides arnoldi* Friese, 1913 = *Nomiooides somalica* Magretti, 1899, autobasic. [Nomiooides]. **Nomiooidinae**.

Cemolobus Robertson, 1902b:324. Type species: *Xenoglossa ipomoeae* Robertson, 1891, by original designation. **Eucerini**.

Centrias Robertson, 1903d:174, 176. Type species: *Nomada erigeronis* Robertson, 1897, by original designation. **Nomadini**.

Centris Fabricius, 1804:354. Type species: *Apis haemorrhoidalis* Fabricius, 1775, designation by Commission Opinion 567 (1959). The designation of *Apis dimidiata* Fabricius, 1793, a euglossine bee, by Blanchard, 1840:405, and the designation of *Apis hirtipes* Fabricius, 1793 = *Apis rustica* Olivier, 1789, by Blanchard, 1849:pl. 128 bis (1846), are invalidated. Isotypic with *Hemisia*. **Centridini**.

Centrosmia Robertson, 1903a:165, 166. Type species: *Osmia bucephala* Cresson, 1864, by original designation. **Osmiini**.

Cephalapis Cockerell, 1910e:23. Type species: *Chelostoma jacintanum* Cockerell, 1910, monobasic. [Chelostoma]. **Osmiini**.

Cephalictoides Cockerell, 1924c:244. Type species: *Halictoides paradoxus* Morawitz, 1867, by original designation. [Halictoides]. **Rophitinae**.

Cephalocolletes Michener, 1989:656. Type species: *Biglossa laticeps* Friese, 1906, by original designation. [Leioproctus]. **Colletinae**.

Cephalosmia Sladen, 1916a:270. Type species: *Osmia armaticeps* Cresson, 1878 = *Osmia montana* Cresson, 1864, monobasic. **Osmiini**.

Cephalotrigona Schwarz, 1940:10. Type species: *Trigona capitata* Smith, 1854, by original designation. [Trigona]. **Meliponini**.

Cephalurgus Moure and Lucas de Oliveira, 1962:2. Type species: *Cephalurgus anomalus* Moure and Lucas de Oliveira, 1962, by original designation. **Panurginae**.

Cephalylaeus Michener, 1942:273. Type species: *Prosopis basalis* Smith, 1853, by original designation. [Hylaeus]. **Hylaeinae.**

Cephen Robertson, 1903d:174, 176. Type species: *Nomada texana* Cresson, 1872, by original designation. **Nomadini.**

Cephalaeus Moure, 1972:280. Type species: *Hylaeus larocai* Moure, 1972, by original designation. [Hylaeus]. **Hylaeinae.**

Ceraheriades Tkalcú, 1984a:5. Type species: *Archeriades petersi* Tkalcú, 1984, by original designation. [Archeriades]. **Osmiini.**

Ceraplastes Gistel, 1848:x, unjustified replacement for *Stelis* Panzer, 1806. Type species: *Apis aterrima* Panzer, 1798, not Christ, 1791 = *Apis punctulatissima* Kirby, 1802, autobasic. Isotypic with *Gymnus*, *Stelis*, *Trachusa* Jurine, and *Gyrodroma* Klug. **Anthidiini.**

Ceratalictus Moure, 1943b:463. Type species: *Oxystoglossa theia* Schrottky, 1911, by original designation. **Augochlorini.**

Ceratias Robertson, 1903a:172, not Kroyer, 1845. Type species: *Megachile pugnatus* Say, 1837, by original designation. See *Sayapis*. Isotypic with *Gnathocera* by synonymy. **Megachilini.**

Ceratina Latreille, 1802b:380. Type species: *Hylaeus albilabris* Fabricius, 1793 = *Apis cucurbitina* Rossi, 1792, monobasic. Westwood, 1840a:85, designated *Apis coerulea* Villers, 1789, and Blanchard, 1840:409, designated *Apis callosa* Fabricius, 1794, as the type species. Placed on Official List of Generic Names in Zoology, Opinion 1011 of the Commission (1973). Isotypic with *Clavicera*. **Ceratinini.**

Ceratinidia Cockerell and Porter, 1899:406. Type species: *Ceratina hieroglyphica* Smith, 1854, by original designation. [Ceratina]. **Ceratinini.**

Ceratinula Moure, 1941a:78. Type species: *Ceratina lucidula* Smith, 1854, by original designation. **Ceratinini.**

Ceratocolletes Michener, 1965a:63. Type species: *Lamprocolletes antennatus* Smith, 1879, by original designation. [Leioproctus]. **Colletinae.**

Ceratomonia Michener, 1981:20. Type species: *Ceratomonia rozenorum* Michener, 1981, by original designation. **Meganomiinae.**

Ceratopsithyrus Pittioni, 1949:270. Type species: *Psithyrus klapperichi* Pittioni, 1949 = *Psithyrus cornutus* Frison, 1933, monobasic. [Psithyrus]. **Bombini.**

Ceratorhiza Hirashima, 1978:81. Type species: *Palaeorhiza conica* Michener, 1965, by original designation. [Palaeorhiza]. **Hylaeinae.**

Ceratosmia Thomson, 1872:232. Type species: *Apis bicornis* Linnaeus, 1758 = *Apis rufa* Linnaeus, 1758, designated by Sandhouse, 1939: 9. [Osmia]. Isotypic with *Osmia* and *Amblys*; isotypic with *Pachyosmia* by synonymy. **Osmiini.**

Cercorrhiza Hirashima, 1982b:88. Type species: *Palaeorhiza gressittorum* Hirashima, 1975, by original designation. [Palaeorhiza]. **Hylaeinae.**

Cerianthidium Friese, 1923:304. Type species: *Trachusa strigata* Panzer, 1805, by designation of Cockerell, 1925a:361. [Anthidium]. Isotypic with *Anthidiellum*. **Anthidiini.**

Ceroliopoeum Ruz, 1991:237. Type species: *Camptopoeum laetum* Vachal, 1909, by original designation. [Calliopsis]. **Panurginae.**

Cestella Pasteels, 1965:547. Type species: *Megachile cestifera* Benoist, 1954, by original designation. [Chalicodoma]. **Megachilini.**

Ceylalictus Strand, 1913a:137. Type species: *Halictus horni* Strand, 1913, monobasic. [Halictus]. **Nomiodinae.**

Ceylonicola Friese, 1918:501. Type species: *Ceylonicola atra* Friese, 1918 = *Sudila bidentata* Cameron, 1898, by designation of Sandhouse, 1943:536. Isotypic with *Sudila* by synonymy. **Halictini.**

Chacoana Holmberg, 1887b: 225, nomen nudum. **Tapinotaspidini.**

Chacoana Holmberg, 1903:432. Type species: *Chacoana melanoxantha* Holmberg, 1903 = *Caenonomada bruneri* Ashmead, 1899, monobasic. Isotypic with *Caenonomada* by synonymy. **Tapinotaspidini.**

Chaetalictus Michener, 1978a:509. Type species: *Halictus pearstonensis* Cameron, 1905, by original designation. [Patellapis]. **Halictini.**

Chaetochile Mitchell, 1980:63. Type species: *Cressoniella golbachi* Schwimmer, 1980, by original designation. [Cressoniella]. **Megachilini.**

Chaetohesma Exley, 1978:373. Type species: *Chaetohesma tuberculata* Exley, 1978, by original designation. **Euryglossinae.**

Chaetostetha Michener, 1942:281. Type species: *Exomalopsis pyropyga* Friese, 1925, by original designation. **Tapinotaspidini.**

Chaeturginus Lucas de Oliveira and Moure, 1963:575. Type species: *Rhophitulus testaceus* Ducke, 1907, by original designation. **Panurginae.**

Chalcobombus Cockerell, 1908d:326. Type species: *Chalcobombus humilis* Cockerell, 1908, designated by Cockerell, 1909e:11. **Fossil.**

Chalcosmia Schmiedeknecht, 1885:20. Type species: *Apis fulviventris* Panzer, 1798 (not Scopoli, 1763) = *Apis niveata* Fabricius, 1804, by designation of Sandhouse, 1939:13. [Osmia]. **Osmiini.**

Chalepogenoides Michener, 1942:279. Type species: *Chalepogenus leucostoma* Cockerell, 1923, by original designation. **Tapinotaspidini.**

Chalepogenus Holmberg, 1903:416. Type species: *Chalepogenus incertus* Holmberg, 1903 = *Tetrapedia muelleri* Friese, 1899, by designation of Sandhouse, 1943:537. Sandhouse considered *Chalepogenus* to be monobasic, but Holmberg named two "varieties" of *C. incertus*, and thus included three taxa. Isotypic with *Desmotetrapedia* by synonymy. **Tapinotaspidini.**

Chalicodoma Lepeletier, 1841:309. Type species: *Apis muraria* Olivier, 1789 (as *Xylocopa muraria* Fabricius, 1804) = *Apis parietina* Fourcroy, 1785, by designation of Girard, 1879:778. **Megachilini.**

Chalicodomoides Michener, 1962:24. Type species: *Megachile aethiops* Smith, 1853, by original designation. [Chalicodoma]. **Megachilini**.

Charitandrena Hedicke, 1933:210. Type species: *Nomada hattorfiana* Fabricius, 1775, by original designation. [Andrena]. **Andreninae**.

Chaulandrena LaBerge, 1964:314. Type species: *Andrena porterae* Cockerell, 1900, by original designation. [Andrena]. **Andreninae**.

Cheesmania Hirashima, 1981b:27. Type species: *Palaeorhiza amabilis* Hirashima, 1981, by original designation. [Palaeorhiza]. **Hylaeinae**.

Chelostoma Latreille, 1809:161. Type species: *Apis maxillosa* Linnaeus, 1767 = *Apis florisonnis* Linnaeus, 1758, monobasic. **Osmiini**.

Chelostomoda Michener, 1962:24. Type species: *Megachile spissula parvula* Strand, 1913 = *M. spissula* Cockerell, 1911, by original designation. [Chalicodoma]. **Megachilini**.

Chelostomoidella Snelling, 1990:36. Type species: *Megachile spinotulata* Mitchell, 1934, by original designation. [Chalicodoma]. **Megachilini**.

Chelostomoides Robertson, 1901:231. Type species: *Megachile rufimanus* Robertson, 1891 = *Chelostoma rugifrons* Smith, 1854, monobasic. **Megachilini**.

Chelostomopsis Cockerell, 1925b:205. Type species: *Chelynia rubifloris* Cockerell, 1898, by original designation. Isotypic with *Raphidostoma* by synonymy. **Osmiini**.

Chelynia Provancher, 1888:322. Type species: *Chelynia labiata* Provancher, 1888, monobasic. **Anthidiini**.

Chenosmia Sinha, 1958:233. Type species: *Osmia penstemonis* Cockerell, 1906, by original designation. **Osmiini**.

Chilalictus Michener, 1965a:174. Type species: *Halictus subinclinans* Cockerell, 1915, by original designation. [Lasioglossum]. **Halictini**.

Chilicola Spinola, 1851:210. Type species: *Chilicola rubriventris* Spinola, 1851, by designation of Sandhouse, 1943:537. **Xeromalissinae**.

Chilicolletes Michener, 1989:640. Type species: *Leioproctus delahozi* Toro, 1973, by original designation. [Leioproctus]. **Colletinae**.

Chilimalopsis Toro, 1976:73. Type species: *Chilimalopsis parvula* Toro, 1976, by original designation. **Exomalopsini**.

Chilimelissa Toro and Moldenke, 1979:149. Type species: *Chilimelissa luisa* Toro and Moldenke, 1979, by original designation. **Xeromalissinae**.

Chilioediscelis Toro and Moldenke, 1979:104. Type species: *Chilicola andina* Toro and Moldenke, 1979, by original designation. [Chilicola]. **Xeromalissinae**.

Chilosima Michener, 1939:78. Type species: *Ashmeadiella rhodognatha* Cockerell, 1924, by original designation. [Ashmeadiella]. **Osmiini**.

Chlerogas Vachal, 1904:127. Type species: *Halictus chlerogas* Vachal, 1904, monobasic and absolute tautonomy. **Augochlorini**.

Chlerogella Michener, 1954:75. Type species: *Chlerogella elongaticeps* Michener, 1954, by original designation. **Augochlorini**.

Chloralictus Robertson, 1902c:245, 248. Type species: *Halictus cressoni* Robertson, 1890, by original designation. **Halictini**.

Chlorandrena Pérez, 1890:172. Type species: *Andrena humilis* Imhoff, 1832, by designation of Hedicke, 1933:211. [Andrena]. **Andreninae**.

Chloranthidiellum Mavromoustakis, 1963b:491. Type species: *Anthidium flavescens* Friese, 1925, by original designation. [Anthidiellum]. **Anthidiini**.

Chloranthidium Pasteels, 1969a:48, *lapsus* for *Chloranthidiellum* Mavromoustakis, 1963. [Anthidiellum]. **Anthidiini**.

Chloroceratina Cockerell, 1918a:143. Type species: *Ceratina cyanura* Cockerell, 1918, by original designation. [Ceratina]. **Ceratinini**.

Chlorosmia Sladen, 1916a:270. Type species: *Osmia fulgida* Cresson, 1864, monobasic. **Osmiini**.

Chromobombus Dalla Torre, 1880:40. Type species: *Apis muscorum* Linnaeus, 1758, by designation of Sandhouse, 1943:538. [Bombus]. **Bombini**.

Chrysandrena Hedicke, 1933:211. Type species: *Apis fulvago* Christ, 1791, by original designation. [Andrena]. **Andreninae**.

Chrysantheda Perty, 1833:147. Type species: *Chrysantheda nitida* Perty, 1833 = *Apis dentata* Linnaeus, 1758, monobasic. Isotypic with *Caliendra*; isotypic with *Exaerete* by synonymy. **Euryglossini**.

Chrysocolletes Michener, 1965a:71. Type species: *Paracolletes moretonianus* Cockerell, 1905, by original designation. [Leioproctus]. **Colletinae**.

Chrysopheon Titus, 1901:256. Type species: *Chrysopheon aurifuscus* Titus, 1901, monobasic. **Dioxyini**.

Chrysosaros Mitchell, 1943:664. Type species: *Megachile guaranitica* Schrottky, 1908, by original designation. [Megachile]. **Megachilini**.

Cilissa Leach, 1815:155. Type species: *Andrena haemorrhoidalis* Fabricius, 1775, by designation of Westwood, 1840a:84. *Melitta tricincta* Kirby, 1802, was designated subsequently by Taschenberg, 1883:52. **Melittinae**.

Cingulata Méhely, 1935:43, 149. Type species: *Vespa pratensis* Geoffroy, 1785 (not Miller, 1759) = *Sphex signata* Panzer, 1798, monobasic. [Prosopis]. Isotypic with *Prosopis* by synonymy. **Hylaeinae**.

Cirroxylocopta Hurd and Moure, 1963:102. Type species: *Xylocopa vestita* Hurd and Moure, 1963, by original designation. [Xylocopa]. **Xylocopini**.

Citrinopsithyrus Thorp, 1983, *in* Thorp, Horning and Dunning, 1983:50. Type species: *Apatus citrinus* Smith, 1854, by original designation. Substitute for *Laboriopsithyrus* Frison, 1927, the type species of which turns out to be an anthophorine bee of the genus *Habropoda*. **Bombini**.

Cladocerapis Cockerell, 1904b:292. Type species: *Lamprocolletes cladocerus* Smith, 1862 = *Lamprocolletes bipectinatus* Smith, 1856, by original designation. **Colletinae**.

Claremontiella Cockerell 1933c:26. Type species: *Spinoliella euxantha* Cockerell, 1916 = *Calliopsis zonalis* Cresson, 1879, by original designation. [Spinoliella]. Isotypic with *Nomadopsis* by synonymy. **Panurginae**.

Clavicera Latreille, 1802a:432. Type species: *Hylaeus albilabris* Fabricius, 1793 = *Apis cucurbitina* Rossi, 1792, monobasic. Suppressed by Commission Opinion 1011 (1973). Isotypic with *Ceratina*. **Ceratinini**.

Clavinomia Warncke, 1980:372. Type species: *Nomia clavicornis* Warncke, 1980, by original designation. [Nomia]. **Nomiinae**.

Clavipanurgus Warncke 1972:95. Type species: *Panurgus clavatus* Warncke, 1972, by original designation. [Panurgus]. **Panurginae**.

Cleptotrigona Moure, 1961:219. Type species: *Lestrimelitta cubiceps* Friese, 1912, by original designation. [Lestrimelitta]. **Meliponini**.

Clisodon Patton, 1879a:479. Type species: *Anthophora terminalis* Cresson, 1869, by original designation. **Anthophorini**.

Clistanthidium Michener and Griswold, 1994a:315. Type species: *Dianthidium turnericum* Mavromoustakis, 1934, by original designation. [Eoanthidium]. **Anthidiini**.

Clypanthidium Pasteels, 1968a:1060. Type species: *Anthidium ruficeps* Friese, 1914, by original designation. Also described as new by Pasteels, 1969a:53. [Bathanthidium]. **Anthidiini**.

Cnemidandrena Hedicke, 1933:213. Type species: *Melitta nigriceps* Kirby, 1802, by original designation. [Andrena]. **Andreninae**.

Cnemidium Perty, 1833:148, not Goldfuss, 1826. Type species: *Cnemidium viride* Perty, 1833, monobasic. See *Euglossella*. **Euglossini**.

Cnemidorhiza Hirashima, 1981a:1. Type species: *Prosopis elegans* Smith, 1864 = *Prosopis elegantissima* Dalla Torre, 1896, by original designation. [Palaeorhiza]. **Hylaeinae**.

Coccineobombus Skorikov, 1922b:157. Type species: *Bombus coccineus* Friese, 1903, by designation of Sandhouse, 1943:539. [Alpigenobombus]. **Bombini**.

Cockerellia Ashmead, 1898:284. Type species: *Perdita hyalina* Cresson, 1878 = *Perdita albipennis* Cresson, 1865, by original designation. **Panurginae**.

Cockerellula Strand, 1932:196, replacement for *Lutziella* Cockerell, 1922. Type species: *Perdita opuntiae* Cockerell, 1922, autobasic. **Panurginae**.

Coelioxita Pasteels, 1977:180. Type species: *Coelioxys afra* Lepeletier, 1841, by original designation. Isotypic with *Allococelioxys*. **Megachilini**.

Coelioxoides Cresson, 1878:94. Type species: *Coelioxoides punctipennis* Cresson, 1878, monobasic. **Tetrapediini**.

Coelioxula Pasteels, 1982:110. Type species: *Coelioxys rufocaudata* Smith, 1854 = *Coelioxys ruficauda* Lepeletier, 1841, by original designation. **Megachilini**.

Coelioxys Latreille, 1809:166. Type species: *Apis conica* Linnaeus, 1758 = *Apis quadridentata* Linnaeus, 1758, by designation of Curtis, 1831, pl. 349 and Westwood, 1840a:85. Latreille's designation, 1810:439, is not acceptable because he listed two species names, not indicating that they were synonyms. He treated them as he treated dissimilar species in certain other cases, e.g., *Centris*. **Megachilini**.

Colax Lepeletier and Serville, 1825:4, 213, nomen nudum.

Colax Lepeletier and Serville, 1828:448, not Hübner, 1819. Type species: *Rhathymus bicolor* Lepeletier and Serville, 1828, monobasic. *Colax* was shown as a synonym of *Rhathymus*. It is not only a junior homonym of *Colax* Hübner but is not available according to the Code, ed. 3, Art. 11(c) because it was proposed in synonymy. Isotypic with *Rhathymus*; isotypic with *Liogastra* by synonymy. **Rhathymini**.

Colletellus Michener, 1965a:70. Type species: *Andrenopsis velutinus* Cockerell, 1929 (not *Paracolletes velutinus* Cockerell, 1929, homonym in *Leioproctus*) = *Leioproctus velutinellus* Michener, 1965, by original designation. [Leioproctus]. **Colletinae**.

Colletes Latreille, 1802a:423. Type species: *Apis succincta* Linnaeus, 1758, monobasic. *Colletes hirta* Lepeletier and Serville, 1825 = *Apis cunicularia* Linnaeus, 1758, designated as type by Blanchard, 1849, pl. 125 (1847), was not originally included. Isotypic with *Evodia* by synonymy. **Colletinae**.

Colletopsis Michener, 1965a:58. Type species: *Leioproctus contrarius* Michener, 1965, by original designation. [Leioproctus]. **Colletinae**.

Colocynthiphila Moure, 1948:342. Type species: *Tetralonia fervens* Smith, 1879, by original designation. [Peponapis]. **Eucerini**.

Comeptila Moure and Michener, 1955b:304. Type species: *Thyreothremma paraguayensis* Brèthes, 1909, by original designation. [Melissoptila]. **Eucerini**.

Compsoclepta Moure, 1995:143. Type species: *Compsoclepta fasciata* Moure, 1995 = *Osirinus lemniscatus* Roig-Alsina, 1989, by original designation. This synonymy was indicated by D. Urban in litt. (1996). Isotypic with *Osirinus* by synonymy. **Osirini**.

Compsomelissa Alfkén, 1924:251. Type species: *Compsomelissa borneri* Alfkén, 1924, monobasic. Isotypic with *Exoneurula* by synonymy. **Allocladini**.

Conandrena Viereck, 1924:20. Type species: *Andrena bradleyi* Viereck, 1907, by original designation. [Andrena]. **Andreninae**.

Conanthalictus Cockerell, 1901b:209. Type species: *Halictus conanthi* Cockerell, 1901, monobasic. [Halictus]. **Rophitinae**.

Confusibombus Ball, 1914:78. Type species: *Bombus confusus* Schenck, 1859, monobasic. [Bombus]. Isotypic with *Sulcobombus* and *Confusobombus*. **Bombini**.

Confusobombus Skorikov, 1922b:156. Type species: *Bombus confusus* Schenck, 1859, by designation of Richards, 1968:214. Isotypic with *Sulcobombus* and *Confusibombus*. **Bombini**.

Congotrachusa Pasteels, 1969a:24. Type species: *Anthidium schoutedeni* Vachal, 1910, by original designation. [Trachusa]. **Anthidiini**.

Conohalictoides Viereck, 1904a:245; also described as new in 1904b:261. Type species: *Conohalictoides lovelli* Viereck, 1904 = *Panurgus novaeangliae* Robertson, 1897, by original designation. **Rophitinae**.

Copoxyla Maa, 1954:211. Type species: "Apis *iris* Christ," 1791 = *Xylocopa cyanescens* Brullé, 1832, by original designation. Christ's work is largely binomial but a section on bees is trinominal and the names published there are not valid. Nonetheless the identity of the type species was clearly indicated by Maa's designation using a common appellation, *iris* Christ, for the species concerned. [Xylocopa]. **Xylocopini**.

Coptepeolus Moure, 1955:120. Type species: *Coptepeolus emarginatus* Moure, 1955, by original designation. **Epeolini**.

Coptorthosoma Pérez, 1901:3, unjustified emendation of *Koptortosoma* Gribodo, 1894. **Xylocopini**.

Coquillettapis Viereck, 1909:47. Type species: *Coquillettapis melittoides* Viereck, 1909 = *Melissodes nigrifrons* Cresson, 1878, by original designation. **Emphorini**.

Corbicula Friese, 1908b:59, also 1908c:170, not Megerle, 1811. Type species: *Corbicula apiformis* Friese, 1908, monobasic. See *Canephorula*. **Eucerini**.

Cordandrena Warneke, 1968:63. Type species: *Andrena cordialis* Morawitz, 1878, by original designation. [Andrena]. **Andreninae**.

Cornylaeus Snelling, 1985:8. Type species: *Prosopis aterrima* Friese, 1911, by original designation. [Hylaeus]. **Hylaeinae**.

Corynogaster Sichel, 1867:146. Type species: *Corynura gayi* Spinola, 1851 = *Halictus rubellus* Haliday, 1836, designated by Daly, Michener, Moure, and Sakagami, 1987:104; these authors explained the invalidity of Sandhouse's (1943:540) designation due to her confusion of *Halictus gayi* Spinola and *Corynura gayi* Spinola. Isotypic with *Corynura*. **Augochlorini**.

Corynura Spinola, 1851:296. Type species: *Corynura gayi* Spinola, 1851 = *Halictus rubellus* Haliday, 1836, designated by Alfken, 1926a:146. Sandhouse, 1943:540, subsequently designated the same species. Isotypic with *Corynogaster*. **Augochlorini**.

Corynurella Eickwort, 1969:398. Type species: *Corynurella mourei* Eickwort, 1969, by original designation. **Augochlorini**.

Corynuroides Sandhouse, 1943:540, replacement for *Corynopsis* Cockerell, 1901. Type species: *Corynura darwini* Cockerell, 1901 = *Augochlora briseis* Smith, 1879, autobasic. **Augochlorini**.

Corynuropsis Cockerell, 1901a:220, not Scott, 1894. Type species: *Corynura darwini* Cockerell, 1901 = *Augochlora briseis* Smith, 1879, by original designation. [Corynura]. See *Corynuroides*. **Augochlorini**.

Corythochila Michener, 1939:74. Type species: *Ashmeadiella inyoensis* Michener, 1939, by original designation. [Ashmeadiella]. **Osmiini**.

Crawfordapis Moure, 1964a:448. Type species: *Megacilissa luctuosa* Smith, 1861, by original designation. [Zikanapis]. **Canpolicanini**.

Creightonella Cockerell, 1908b:146. Type species: *Megachile mitimia* Cockerell, 1908 = *Megachile cognata* Smith, 1853, by original designation. [Megachile]. **Megachilini**.

Creightonella Pasteels, 1965:10, error for *Creightonella* Cockerell, 1908. **Megachilini**.

Cremnandrena LaBerge, 1986:554. Type species: *Andrena anisochlora* Cockerell, 1936, by original designation. [Andrena]. **Andreninae**.

Cressoniella Mitchell, 1934:307. Type species: *Megachile "zapoteka" Cresson* = *M. zapoteca* Cresson, 1878, by original designation. [Megachile]. **Megachilini**.

Crewella Cockerell, 1903b:202. Type species: *Ceratina titusi* Cockerell, 1903, by original designation. [Ceratina]. **Ceratinini**.

Crinoglossa Friese, 1925b:502. Type species: *Crinoglossa natalensis* Friese, 1925, monobasic. **Nomiinae**.

Crocisa Jurine, 1801:164. Type species: *Nomada scutellata* Jurine, 1801 = *Melecta histrionica* Illiger, 1806, by designation of Morice and Durrant, 1915:423. Invalidated by Commission Opinion 135 (1939). **Melectini**.

Crocisa Jurine, 1807:239. Type species: *Nomada histrio* Fabricius, 1775, by designation of Latreille, 1810:439. *Nomada scutellaris* Fabricius, 1781, was designated by Michener, 1965a:218. *Crocisa ramosa* Lepeletier, 1841, was designated as type species by Blanchard, 1849:pl. 128 (1847) but was not originally included. **Melectini**.

Crocisaspidea Ashmead, 1899a:68. Type species: *Crocisaspidea chandleri* Ashmead, 1899, by original designation. **Nomiinae**.

Crocissa Panzer, 1806:263. Type species: *Nomada scutellaris* Fabricius, 1781, by designation of Sandhouse, 1943:541. This name was published as a synonym of *Thyreus* and was credited to Jurine; presumably it was an error for *Crocisa*. Isotypic with *Thyreus*. **Melectini**.

Crotchiibombus Franklin, 1954:51. Type species: *Bombus crotchii* Cresson, 1878, by original designation. [Bombus]. **Bombini**.

Cryptandrena Pittioni, 1948:49, not Lanham, 1949. Type species: *Andrena ventricosa* Dours, 1873, by original designation. [Andrena]. **Andreninae**.

Cryptandrena Lanham, 1949:222, not Pittioni, 1948. Type species: *Andrena carlini* Cockerell, 1901, by original designation. [Andrena]. See *Bythandrena*. **Andreninae**.

Cryptohalictoides Viereck, 1904b:261. Type species: *Cryptohalictoides spiniferus* Viereck, 1904, by original designation. **Rophitinae**.

Cryptosmia Yasumatsu and Hirashima, 1950:14. Type species: *Osmia satoi* Yasumatsu and Hirashima, 1950, by original designation. [Osmia]. **Osmiini**.

Ctenanthidium Urban, 1993:85. Type species: *Ctenanthidium gracile* Urban, 1991, by original designation. **Anthidiini**.

Ctenaugochlora Eickwort, 1969:435. Type species: *Neocorynura perfectinata* Michener, 1954, by original designation. [Caenaugeochlora]. **Augochlorini**.

Ctenioschelus Romand, 1840:336. Type species: *Acanthopus goryi* Romand, 1840, monobasic. Taschenberg, 1883:78, designated as type species *Melissoda latreillei* Lepeletier, 1841 = *Acanthopus goryi* Romand, 1840. Isotypic with *Ischnocera* and *Melissoda* by synonymy. **Ericocidini**.

Ctenoapis Cameron, 1901a:116. Type species: *Ctenoapis lutea* Cameron, 1901, by designation of Sandhouse, 1943:542. **Pararhophitini**.

Ctenoceratina Daly and Moure, 1988, in Daly, 1988:12. Type species: *Ceratina armata* Smith, 1854, by original designation. **Ceratinini**.

Ctenocolletes Cockerell, 1929c:358. Type species: *Stenotritus nicholsoni* Cockerell, 1929, monobasic. [Stenotritus]. **Stenotritidae**.

Ctenocorynura Schrottky, 1914:628. Type species: *Ctenocorynura vernoniae* Schrottky, 1914 = *Halictus inflaticeps* Ducke, 1906, by original designation. Isotypic with *Rhinocorynura* by synonymy. **Augochlorini**.

Ctenonomia Cameron, 1903b:178. Type species: *Ctenonomia carinata* Cameron, 1903, monobasic. **Halictini**.

Ctenoplectra Kirby, 1826, in Kirby and Spence, 1826:681, no species. Type species: *Ctenoplectra chalybea* Smith, 1858, by inclusion and designation of Sandhouse, 1943:542. Isotypic with *Ctenoplectra* Smith. **Ctenoplectrini**.

Ctenoplectra Smith, 1858:44. Type species: *Ctenoplectra chalybea* Smith, 1858, monobasic. Homonym and synonym of *Ctenoplectra* Kirby, 1826. Isotypic with *Ctenoplectra* Kirby. **Ctenoplectrini**.

Ctenoplectrella Cockerell, 1909d:314; also described as new by Cockerell, 1909e:19. Type species: *Ctenoplectrella viridiceps* Cockerell, 1909, monobasic. **Fossil**.

Ctenoplectrina Cockerell, 1930a:360. Type species: *Ctenoplectra politula* Cockerell, 1930, monobasic. [Ctenoplectra]. **Ctenoplectrini**.

Ctenopoda Ma, 1938:285, not McAtee and Malloch, 1933. Type species: *Apis fenestrata* Fabricius, 1798, by original designation. [Xylocopa]. See *Ctenoxylocopa* Michener and Baana Sandhouse. **Xylocopini**.

Ctenosibyne Moure, 1956:311. Type species: *Lonchopria cingulata* Moure, 1956, by original designation. [Lonchopria]. **Colletinae**.

Ctenosmia Thomson, 1872:233. Type species: *Apis adunca* Panzer, by designation of Michener, 1941:158. Isotypic with *Hoplitis*. **Osmiini**.

Ctenoxylocopa Michener, 1942:282, replacement for *Ctenopoda* Ma, 1938. Type species: *Apis fenestrata* Fabricius, 1798, autobasic. [Xylocopa]. **Xylocopini**.

Cubiandrena Warncke, 1968:76. Type species: *Andrena cubiceps* Friese, 1914, by original designation. [Andrena]. **Andreninae**.

Cubitalia Friese, 1911d:136. Type species: *Eucera breviceps* Friese, 1911, monobasic. [Eucera]. **Eucerini**.

Cubitognatha Michener, 1939:81. Type species: *Ashmeadiella xenomastax* Michener, 1939, by original designation. [Ashmeadiella]. **Osmiini**.

Cullumanibombus Skorikov, 1938a:145, unjustified emendation of *Cullumanobombus* Vogt, 1911. **Bombini**.

Cullumanobombus Vogt, 1911:57. Type species: *Apis cullumana* Kirby, 1802, by designation of Frison, 1927:66. [Bombus]. **Bombini**.

Curtapis Robertson, 1918a:91. Type species: *Halictus coriaceus* Smith, 1853, by original designation. **Halictini**.

Curvinomia Michener, 1944:251. Type species: *Nomia californiensis* Michener, 1937 = *Nomia tetrazonata* Cockerell, 1910, by original designation. [Nomia]. **Nomiinae**.

Cuspidella Pasteels, 1965:544. Type species: *Chalicodoma quadraticeps* Pasteels, 1965, by original designation. [Chalicodoma]. **Megachilini**.

Cyaneoderes Ashmead, 1899a:70. Type species: *Cyaneoderes fairchildi* Ashmead, 1899 = *Bombus coeruleus* Fabricius, 1804, by original designation. **Xylocopini**.

Cyanocentris Friese, 1900:244, 251. Type species: *Apis versicolor* Fabricius, 1775, by designation of Sandhouse, 1943:543. [Centris]. **Centridini**.

Cyathocera Smith, 1875:47. Type species: *Cyathocera nodicornis* Smith, 1875, monobasic. **Nomiinae**.

Cyphanthidium Pasteels, 1969a:57. Type species: *Cyphanthidium intermedium* Pasteels, 1969, by original designation. **Anthidiini**.

Cyphepicharis Moure, 1945b:306. Type species: *Cyphepicharis borgmeieri* Moure, 1945, by original designation. **Centridini**.

Cyphomelissa Schrottky, 1902a:493. Type species: *Cyphomelissa pernigra* Schrottky, 1902 = *Melissa diabolica* Friese, 1900, by original designation. **Ericocidini**.

Cyphopyga Robertson, 1903a:169, 172. Type species: *Megachile montivaga* Cresson, 1878, by original designation. **Megachilini**.

Cyphoxylocopa Hurd and Moure, 1963:283. Type species: *Xylocopa ocularis* Pérez, 1901, by original designation. [Xylocopa]. **Xylocopini**.

Cyprizophites Warncke, 1979:135. Type species: *Dufourea caeruleocephala cypria* Mavromoustakis, 1952, by original designation. [Rophites]. **Rophitinae**.

Cyrtapis Cockerell, 1908c:339. Type species: *Cyrtapis anomalus* Cockerell, 1908, monobasic. **Fossil**.

Cyrtocoelioxys Mitchell, 1973:106. Type species: *Coelioxys costaricensis* Cockerell, 1914, by original designation. [Coelioxys]. **Megachilini**.

Cyrtopasites Mavromoustakis, 1963d:753. Type species: *Schmiedeknechtia verhoeffi* Mavromoustakis, 1959, by original designation. [Schmiedeknechtia]. **Ammobatoidini**.

Cyrtosmia Michener, 1947:292. Type species: *Osmia hypocrita* Cockerell, 1906, by original designation. [Hoplitis]. **Osmiini**.

Dactylandrena Viereck, 1924:20. Type species: *Andrena maura* Viereck, 1924 = *Andrena caliginosa* Viereck, 1916, by original designation. [Andrena]. **Andreninae**.

Dactylomegachile Mitchell, 1943:670. Type species: *Megachile parsoniae* Schrottky, 1914, by original designation. [Megachile]. **Megachilini**.

Dactylurina Cockerell, 1934b:47. Type species: *Trigona staudingeri* Gribodo, 1893, by original designation. **Meliponini**.

Dalloapula Michener, 1975:246. Type species: *Allodape dichroa* Strand, 1915, by original designation. [Allodapula]. **Allodapini**.

Dasiapis Cockerell, 1903c:450. Type species: *Dasiapis ochracea* Cockerell, 1903, monobasic. **Emphorini**.

Dasyandrena LaBerge, 1977:71. Type species: *Andrena obscuripostica* Viereck, 1916, by original designation. [Andrena]. **Andreninae**.

Dasybombus Labougle and Ayala, 1985:49. Type species: *Bombus macgregori* Labougle and Ayala, 1985, by original designation. [Bombus]. **Bombini**.

Dasycoelioxys Mitchell, 1973:99. Type species: *Coelioxys pergandei* Schletterer, 1890, by original designation. [Coelioxys]. **Megachilini**.

Dasycolletes Smith, 1853:14. Type species: *Dasycolletes metallicus* Smith, 1853, by designation of Cockerell, 1905a:347. **Colletinae**.

Dasyglossa Illiger, 1807, in Klug, 1807b:217 footnote, no valid species names; Klug, 1810:44, included valid species. Type species: *Oxaea flavescens* Klug, by designation of Sandhouse, 1943:544. Isotypic with *Oxaea*. **Oxaeinae**.

Dasyhalonia Michener, LaBerge, and Moure, 1955:226. Type species: *Tetralonia spiniventris* Friese, 1910 = *Tetralonia mimetica* Brèthes, 1910, by original designation. **Eucerini**.

Dasyhesma Michener, 1965a:102. Type species: *Dasyhesma robusta* Michener, 1965, by original designation. **Euryglossinae**.

Dasymegachile Mitchell, 1943:669. Type species: *Megachile saulcyi* Guérin, 1845, by original designation. [Megachile]. **Megachilini**.

Dasymegilla Brooks, 1988:486. Type species: *Apis quadrimaculata* Panzer, 1798, by original designation. [Anthophora]. Isotypic with *Lastius* Jurine. **Anthophorini**.

Dasyosmia Michener, 1947:294. Type species: *Alcidamea biscutellae* Cockerell, 1897, by original designation. [Hoplitis]. **Osmiini**.

Dasypoda Latreille, 1802a:424. Type species: *Andrena hirtipes* Fabricius, 1793, designated by Blanchard, 1840:414. *Melitta swammerdamiella* Kirby, 1802, designated as the type species by Curtis, 1831:367, was not originally included in *Dasypoda* but is a synonym of *Andrena hirtipes* Fabricius. **Dasypodinae**.

Dasyscirtetica Michener, LaBerge, and Moure, 1955:218. Type species: *Tetralonia gilva* Holmberg, 1884, by original designation. [Alloscirtetica]. **Eucerini**.

Dasystilbe Dressler, 1978:193. Type species: *Euglossa villosa* Moure, 1968, by original designation. [Euglossa]. **Euglossini**.

Dasyxylocopta Hurd and Moure, 1963:113. Type species: *Xylocopa bimaculata* Friese, 1903, by original designation. [Xylocopa]. **Xylocopini**.

Delomegachile Viereck, 1916:745. Type species: *Megachile vidua* Smith, 1853 = *M. latimanus* Say, 1823, monobasic. [Megachile]. Isotypic with *Xanthosarus* by synonymy. **Megachilini**.

Deltoptila LaBerge and Michener, 1963:211. Type species: *Habropoda montezumia* Smith, 1879, by original designation. **Anthophorini**.

Denticolletes Noskiewicz, 1936:25, 486. Type species: *Colletes graeffei* Alfken, 1900, monobasic. [Colletes]. **Colletinae**.

Dentigera Méhely, 1935:45, 151. Invalid because no type species was designated. [Prosopis]. **Hylaeinae**.

Dentigera Popov, 1939:168. Type species: *Hylaeus brevicornis* Nylander, 1852, by original designation. [Prosopis]. **Hylaeinae**.

Dentirophites Warncke, 1979:130. Type species: *Dufourea gaullei* Vachal, 1897, by original designation. [Rophites]. **Rophitinae**.

Deranchanthidium Griswold and Michener, 1988:34. Type species: *Dianthidium chamaela* Griswold and Michener, 1988, by original designation. [Dianthidium]. **Anthidiini**.

Deranchylaeus Bridwell, 1919:136. Type species: *Prosopis curvicalinata* Cameron, 1905, by original designation. [Hylaeus]. **Hylaeinae**.

Derandrena Ribble, 1968a:333. Type species: *Andrena vandykei* Cockerell, 1936, by original designation. [Andrena]. **Andreninae**.

Dermatohesma Michener, 1965a:91. Type species: *Euryglossimorpha abnormis* Rayment, 1935, by original designation. [Euryglossa]. **Euryglossinae**.

Derotropis Mitchell, 1936:156. Type species: *Megachile pascoensis* Mitchell, 1934, by original designation. [Megachile]. **Megachilini**.

Desmotetrapedia Schrottky, 1909d:223. Type species: *Tetrapedia muelleri* Friese, 1899, by original designation. Isotypic with *Chalepogenus* by synonymy. **Tapinotaspidini**.

Diadasia Patton, 1879a:475. Type species: *Melissodes enavata* Cresson, 1872, by original designation. **Emphorini**.

Diadasiana Michener, 1954:130, incorrect subsequent spelling of *Diadasina* Moure, 1950. **Emphorini**.

Diadasiella Ashmead, 1899a:64. Type species: *Diadasiella coquillettii* Ashmead, 1899 = *Synhalonia albicans* Provancher, 1896, by original designation. **Exomalopsini**.

Diadasina Moure, 1950c:392. Type species: *Melitoma paraensis* Ducke, 1912, by original designation. **Emphorini**.

Diagonozus Enderlein, 1903:35. Type species: *Diagonozus bicometes* Enderlein, 1903, monobasic. **Halictini**.

Dialictus Robertson, 1902d:48. Type species: *Halictus anomalus* Robertson, 1892, by original designation. **Halictinae**.

Dialonia Robertson, 1903b:104. Type species: *Sphecodes antennariae* Robertson, 1891, by original designation. **Halictini**.

Diandrena Cockerell, 1903a:75. Type species: *Panurgus chalybaeus* Cresson, 1878, by original designation. **Andreninae**.

Dianthidium Cockerell, 1900b:412. Type species: *Anthidium curvatum* Smith, 1854, by original designation. [Anthidium]. **Anthidiini**.

Diaxylolopa Hurd and Moure, 1963:129. Type species: *Xylocopa truxali* Hurd and Moure, 1963, by original designation. [Xylocopa]. **Xylocopini**.

Diceratosmia Robertson, 1903a:166, 171. Type species: *Osmia 4-dentata* Cresson, 1878 = *Osmia conjuncta* Cresson, 1864, by original designation. **Osmiinae**.

Dichanthidium Moure, 1947a:30 (January); also described as new by Moure, 1947b:235 (June). Type species: *Dichanthidium exile* Moure, 1947, by original designation. **Anthidiini**.

Dichroa Illiger, 1806:46. Type species: *Sphex gibba* Linnaeus, 1758, by designation of Sandhouse, 1943:545. Isotypic with *Sphecodes*. **Halictini**.

Dicranthidium Moure and Urban, 1975:837. Type species: *Anthidium arenarium* Ducke, 1907, by original designation. **Anthidiini**.

Dicromonia Michener and Brooks, 1987:100. Type species: *Agemmonia wenzeli* Michener and Brooks, 1987, by original designation. [Agemmonia]. **Meganomiinae**.

Dictyohalictus Michener, 1978a:518. Type species: *Halictus retigerus* Cockerell, 1940, by original designation. [Pachyhalictus]. Isotypic with *Rugalictus* by synonymy. **Halictini**.

Didonia Gribodo, 1894:106. Type species: *Didonia punica* Gribodo, 1894 = *Andrena mucida* Kriechbaumer, 1873, monobasic. **Andreninae**.

Diepeolus Gribodo, 1894:79. Type species: *Epeolus giannellii* Gribodo, 1894, monobasic. [Epeolus]. **Epeolini**.

Dieunomia Cockerell, 1899a:14, replacement for *Eunomia* Cresson, 1875. Type species: *Eunomia marginipennis* Cresson, 1875 = *Nomia kirbii* Smith, 1865, autobasic and by designation of Cockerell, 1910f:290. **Nomiinae**.

Digitella Pasteels, 1965:191. Type species: *Megachile digiticanda* Cockerell, 1937, by original designation. [Megachile]. **Megachilini**.

Digressobombus Laverty, Plowright, and Williams, 1984:1051. Type species: *Megabombus digressus* Milliron, 1962, by original designation. [Bombus]. **Bombini**.

Digronoceras Cockerell, 1931c:134. Type species: *Megachile combusta* Smith, 1853 = *Apis cincta* Fabricius, 1771, by original designation. [Gronoceras]. **Megachilini**.

Dilobopeltis Fairmaire, 1858:266. Type species: *Dilobopeltis fuscipennis* Fairmaire, 1858 = *Thynnus abdominalis* Fabricius, 1793, monobasic. Isotypic with *Euaspis* by synonymy. **Anthidiini**.

Dinagapostemon Moure and Hurd, 1982:46. Type species: *Halictus sicheli* Vachal, 1901, by original designation. **Halictini**.

Dinavis Pasteels, 1965:549. Type species: *Megachile muansae*Megachilini.

Dinomia Hirashima, 1956:29. Type species: *Nomia taiwana* Hirashima, 1956, by original designation. [Nomia]. **Nomiinae**.

Dinoxylocopa Hurd and Moure, 1963:230. Type species: *Xylocopa absurdipes* Enderlein, 1903 = *Xylocopa io* Vachal, 1898, by original designation. [Xylocopa]. **Xylocopini**.

Diomalopsis Michener and Moure, 1957:431. Type species: *Exomalopsis bicellularis* Michener and Moure, 1957, by original designation. [Exomalopsis]. **Exomalopsini**.

Dioxoides Popov, 1947:89. Type species: *Coelioxys tridentata* Nylander, 1848, by original designation. **Dioxyini**.

Dioxys Lepeletier and Serville, 1825:109. Type species: *Trachusa cincta* Jurine, 1807, monobasic. **Dioxyini**.

Dipedia Friese, 1906d:92. Type species: *Ancyloscelis armatus* Smith, 1854, by designation of Lutz and Cockerell, 1920:592. **Emphorini**.

Diphaglossa Spinola, 1851:168. Type species: *Diphaglossa gayi* Spinola, 1851, monobasic. **Diphaglossinae**.

Diphysis Lepeletier, 1841:307. Type species: *Diphysis pyrenaica* Lepeletier, 1841 = *Apis byssina* Panzer, 1798, monobasic. Isotypic with *Trachusa* Panzer and *Megachileoides* by synonymy. **Anthidiini**.

Disparapis Stage, 1981, in Michener, 1981:96. Type species: *Hesperapis arenicola* Crawford, 1917, by original designation. [Hesperapis]. **Dasypodinae**.

Dissoglossa Moure, 1945a:144. Type species: *Dissoglossa stenoceratina* Moure, 1945, by original designation. **Dissoglossini**.

Distandrena Warncke, 1968:60. Type species: *Andrena longibarbis* Pérez, 1895, by original designation. [Andrena]. **Andreninae**.

Dithygater Moure and Michener, 1955b:309. Type species: *Dithygater seabrai* Moure and Michener, 1955, by original designation. **Eucerini**.

Diversibombus Skorikov, 1938b:1, unjustified emendation of *Diversobombus* Skorikov, 1914. **Bombini**.

Diversobombus Skorikov, 1914b:406. Type species: *Bombus diversus* Smith, 1869, by designation of Sandhouse, 1943:546. [Bombus]. **Bombini**.

Dizonamegilla Brooks, 1988:505. Type species: *Megilla sesquicincta* Erichson and Klug, 1842, by original designation. [Amegilla]. **Anthophorini**.

Doeringiella Holmberg, 1886a:151; 1886b:233. Type species: *Doeringiella bizonata* Holmberg, 1886, monobasic. **Epeolini**.

Dolichochile Viereck, 1909:49. Type species: *Dolichochile melitoides* Viereck, 1909, by original designation. **Melittinae**.

Dolichostelis Parker and Bohart, 1979:138. Type species: *Stelis laticincta* Cresson, 1878, by original designation. **Anthidiini**.

Dolichotrigona Moure, 1950a:248. Type species: *Trigona longitarsis* Ducke, 1916, by original designation. [*Hypotrigona*]. **Meliponini**.

Domanthidium Pasteels, 1969a:95. Type species: *Anthidium abdominale* Friese, 1904, by original designation. **Anthidiini**.

Doxanthidium Pasteels, 1969a:28. Type species: *Anthidium paradoxum* Moesáry, 1884, by original designation. **Anthidiini**.

Drepanium Robertson, 1903b:103. Type species: *Sphecodes falcifer* Patton, 1880 = *Sphecodes confertus* Say, 1837, by original designation. **Halictini**.

Duckeanthidium Moure and Hurd, 1960:2. Type species: *Anthidium megachiliforme* Ducke, 1907, by original designation. **Anthidiini**.

Duckeola Moure, 1944a:71. Type species: *Trigona huberi* Friese, 1901 = *Trigona ghilianii* Spinola, 1853, by original designation. **Meliponini**.

Dufourea Lepeletier, 1841:227. Type species: *Dufourea minuta* Lepeletier, 1841, by designation of Richards, 1935:172 and Timberlake, 1939:396. *D. vulgaris* Schenck, 1859, was not designated by Cockerell, 1924c:244, as stated by Sandhouse (1943:547), and was not originally included. **Rophitinae**.

Ebmeria Pesenko, 1986a:136. Type species: *Halictus costulatus* Kriechbaumer, 1873, by original designation. [*Lasioglossum*]. **Halictini**.

Ebmeriana Pagliano and Scaramozzino, 1990:127, replacement for *Micropasites* Warncke, 1983. Type species: *Ammobates minutissimus* Mavromoustakis, autobasic. [*Pasites*]. **Ammobatini**.

Eclitoides Roig-Alsina, 1989:9. Type species: *Epeolus stuardi Ruiz*, 1935, by original designation. **Osirini**.

Echinanthidium Pasteels, 1969a:101. Type species: *Anthidium echinatum* Klug, 1832, by original designation. [*Anthidium*]. **Anthidiini**.

Echthralictus Perkins and Cheesman, 1928:14. Type species: *Halictus extraordinarius* Kohl, 1908, by original designation. **Halictini**.

Ecryptica Holmberg, 1884:123. Type species: *Ecryptica tintinnans* Holmberg, 1884, monobasic. **Eucerini**.

Edriohylaeus Michener, 1965a:124. Type species: *Hylaeus ofarrelli* Michener, 1965, by original designation. [*Hylaeus*]. **Hylaeinae**.

Edwynia Moure, 1951c:195, not Aldrich, 1930. Type species: *Pasiphae flavigaster* Spinola, 1851, by original designation. See *Edwyniana*. **Colletinae**.

Edwyniana Moure, 1954a:165, replacement for *Edwynia* Moure, 1951. Type species: *Pasiphae flavigaster* Spinola, 1851, autobasic. **Colletinae**.

Effactapis Michener, 1977:6. Type species: *Effactapis furax* Michener, 1977, by original designation. **Allodapini**.

Gapista Cockerell, 1904a:357, replacement for *Apista* Smith, 1861. Type species: *Apista opalina* Smith, 1861, autobasic. **Dissoglossini**.

Eickwortapis Michener and Poinar, 1997:354. Type species: *Eickwortapis dominicana* Michener and Poinar, 1997, by original designation. **Fossil. Halictinae**.

Elandrena Lanham, 1949:203. Type species: *Andrena amplificata* Cockerell, 1910, by original designation. [*Andrena*]. **Andreninae**.

Elaphropoda Lieftinck, 1966:148. Type species: *Habropoda impatiens* Lieftinck, 1944, by original designation. **Anthophorini**.

Elecolletes Warneke, 1978:330. Type species: *Colletes elegans* Noskiewicz, 1936, by original designation. [*Colletes*]. **Colletinae**.

Electrapis Cockerell, 1908d:326; also described as new by Cockerell, 1909e:7. Type species: *Apis meliponoides* Buttelen, 1906, designated by Cockerell, 1909e:8. **Fossil**.

Emphor Patton, 1879a:476. Type species: *Melissodes bombiformis* Cresson, 1878, by original designation. **Emphorini**.

Emphoropsis Ashmead, 1899a:60, no included species; Cockerell and Cockerell, 1901:48, included species. Type species: *Anthophora floridana* Smith, 1854 = *Bombus laboriosus* Fabricius, 1804, by designation of Cockerell and Cockerell, 1901:48. **Anthophorini**.

Energoponus Holmberg, 1903:406. Type species: *Energoponus strenuus* Holmberg, 1903 = *Ptilothrix plumatus* Smith, 1853, by designation of Sandhouse, 1943:547. Isotypic with *Ptilothrix* by synonymy. **Emphorini**.

Ensliniana Alfken, 1938:431. Type species: *Ensliniana cuspidata* Alfken, 1938 = *Stelis bidentata* Friese, 1899, by original designation. **Dioxyini**.

Entechnia Patton, 1879a:476. Type species: *Anthophora taurea* Say, 1837, by original designation. **Emphorini**.

Eoanthidiellum Pasteels, 1969a:51. Type species: *Anthidium elongatum* Friese, 1897 = *Anthidium clypeare* Morawitz, 1873, by original designation. [*Eoanthidium*]. **Anthidiini**.

Eoanthidium Popov, 1950a:316. Type species: *Anthidium insulare* Morawitz, 1873, by original designation. [*Dianthidium*]. **Anthidiini**.

Emelipona Moure, 1992:35. Type species: *Melipona marginata* Lepeletier, 1836, by original designation. [*Melipona*]. **Meliponini**.

Eopeponapis Hurd and Linsley, 1970:20. Type species: *Xenoglossa utahensis* Cockerell, 1905, by original designation. [*Peponapis*]. **Eucerini**.

Eopsithyrus Popov, 1931a:134. Type species: *Apathus tibetanus* Morawitz, 1886, by original designation. [*Psithyrus*]. **Bombini**.

Eothrincostoma Blüthgen, 1930:496, 501. Type species: *Halictus torridus* Smith, 1879, by designation of Sandhouse, 1943:548. **Halictini.**

Eoxenoglossa Hurd and Linsley, 1970:34. Type species: *Melissodes strenua* Cresson, 1878, by original designation. [Xenoglossa]. **Eucerini.**

Eoxylocopa Sakagami and Yoshikawa, 1961:413, nomen nudum. [Xylocopa]. **Xylocopini.**

Epanthidium Moure, 1947a:33. Type species: *Hypanthidium tigrinum* Schrottky, 1905, by original designation. **Anthidiini.**

Epeicharis Radoszkowski, 1884:18. Type species: *Epeicharis mexicanus* Radoszkowski, 1884, monobasic. See *Fiorentinia*. **Tapinotaspidini.**

Epeoloides Giraud, 1863:44. Type species: *Epeoloides ambiguus* Giraud, 1863 = *Apis coecutiens* Fabricius, 1775, monobasic. **Osirini.**

Epeolus Latreille, 1802a:427. Type species: *Apis variegata* Linnaeus, 1758, monobasic. Isotypic with *Monoepelous*. **Epeolini.**

Epicharana Michener, 1954:144. Type species: *Apis rustica* Olivier, 1789, by original designation. [Epicharis]. **Centridini.**

Epicharis Klug, 1807, in Illiger, 1807:197, nomen nudum. **Centridini.**

Epicharis Klug, 1807b:226. Type species: *Centris umbraculata* Fabricius, 1804, by designation of Lutz and Cockerell, 1920:562. Latreille (1810) listed *Apis hirtipes* Fabricius, 1793 as the type species. This was not an originally included species but is a subjective synonym of *Apis rustica* Olivier, 1789, as is *Centris dasypoda* Klug, 1807, which was originally included. Moure (1945b, 1960) considered the type to be *Apis rustica* Olivier, the type species of *Epicharana*, because Latreille listed a synonym of *rustica* as the type species of *Epicharis*, but the Code, 3rd ed., Art. 69(a)(v), makes clear that this reasoning applies only if the author concerned (Latreille) indicated the synonymy, which he did not. Snelling (1984:59) correctly explained the situation. **Centridini.**

Epicharitides Moure, 1945b:311. Type species: *Epicharis cockerelli* Friese, 1900, by original designation. **Centridini.**

Epicharoides Radoszkowski, 1884:20. Type species: *Epicharoides bipunctatus* Radoszkowski, 1884 = *Epicharis maculatus* Smith, 1874, monobasic. **Centridini.**

Epicolpus Spinola, 1851:183. Type species: *Epicolpus gayi* Spinola, 1851, monobasic. **Ericrocidiini.**

Epicolpus Ashmead, 1899a:61, *lapsus* for *Epicolpus* Spinola, 1851. **Ericrocidiini.**

Epihalictoides Cockerell and Porter, 1899:420. Type species: *Panurgus marginatus* Cresson, 1878, monobasic. [Halictoides]. **Rophitinae.**

Epimacroteria Timberlake, 1954:377. Type species: *Perdita ainsliei* Crawford, 1932, by original designation. [Perdita]. **Panurginae.**

Epimelissodes Ashmead, 1899a:63. Type species: *Melissodes atripes* Cresson, 1872, by original designation. **Eucerini.**

Epimethea Morawitz, 1876:61. Type species: *Epimethea variegata* Morawitz, 1876, by designation of Cockerell, 1922c:1. **Panurginae.**

Epimonispractor Holmberg, 1887b:225, nomen nudum. **Exomalopsini.**

Epimonispractor Holmberg, 1903:426. Type species: *Epimonispractor gratus* Holmberg, 1903 = *Exomalopsis analis* Spinola, 1853, by designation of Sandhouse, 1943:548. Sandhouse erroneously reported original designation. **Exomalopsini.**

Epinomia Ashmead, 1899a:88. Type species: *Nomia persimilis* Cockerell, 1898 = *Nomia triangulifera* Vachal, 1897, by original designation. **Nomiinae.**

Epinomia Alfken, 1939:113, not Ashmead, 1899. Type species: *Nomia andrenoides* Vachal, 1903 = *Nomia andrei* Vachal, 1897, by original designation. [Nomia]. See *Alfkenomia*. **Nomiinae.**

Epixylocopa Hurd and Moure, 1963:223. Type species: *Xylocopa rufitarsis* Lepeletier, 1841, by original designation. [Xylocopa]. **Xylocopini.**

Erandrena LaBerge, 1986:505. Type species: *Andrena principalis* LaBerge, 1986, by original designation. [Andrena]. **Andreninae.**

Eremandrena LaBerge, 1964:295. Type species: *Pterandrena pallidiscopa* Viereck, 1904, by original designation. [Andrena]. **Andreninae.**

Eremaphanta Popov, 1940:53. Type species: *Rhophites vitellinus* Morawitz, 1876, by original designation. **Dasypodinae.**

Eremapis Ogloblin, 1956:149. Type species: *Eremapis parvula* Ogloblin, 1956, by original designation. **Exomalopsini.**

Eremopasites Linsley, 1942:131. Type species: *Townsendiella californica* Michener, 1936, by original designation. [Townsendiella]. **Townsendiellini.**

Eremoplosmia Zanden, 1991:164. Type species: *Osmia eremoplana* Mavromoustakis, 1949, by original designation. [Anthocopa]. **Osmiini.**

Eremosmia Michener, 1943:66. Type species: *Osmia robustula* Cockerell, 1935, by original designation. [Anthocopa]. **Osmiini.**

Eriades Dalla Torre and Friese, 1895:69, unjustified emendation of *Heriades* Spinola, 1808. **Osmiini.**

Ericrocis Cresson, 1887:131, 134. Type species: *Crocisa ? lata* Cresson, 1878, monobasic. **Ericrocidiini.**

Eriops Klug, 1807, in Illiger, 1807:197; Klug, 1807b:207, 227. Type species: *Andrena lobata* Panzer, 1799 = *Apis calcarata* Scopoli, 1763, monobasic. Isotypic with *Panurgus* by synonymy. **Panurginae.**

Eryops Latreille, 1811:716, unjustified emendation of *Eriops* Klug, 1807. **Panurginae.**

Erythrandrena Zavortink, 1972:61. Type species: *Megandrena mentzeliae* Zavortink, 1972, by original designation. [Megandrena]. **Andreninae.**

Erythronomioides Pesenko, 1983:176. Type species: *Nomioides socotranus* Blüthgen, 1925, by original designation. [Nomioides]. **Nomioidinae**.

Erythrosmia Schmiedeknecht, 1885:20. Type species: *Osmia andrenoides* Spinola, 1808, by designation of Cockerell, 1922a:6. [Osmia]. **Osmiini**.

Ethalonchopria Michener, 1989:670. Type species: *Apista gaullei* Vachal, 1909, by original designation. [Eulonchopria]. **Colletinae**.

Euandrena Hedicke, 1933:213. Type species: *Andrena bicolor* Fabricius, 1775, by original designation. [Andrena]. **Andreninae**.

Euaspis Gerstaecker, 1857:460. Type species: *Thynnus abdominalis* Fabricius, 1793, by original designation. Isotypic with *Dilobopeplus* by synonymy. **Anthidiini**.

Eucara Friese, 1905b:241. Type species: *Anthophora laticeps* Friese, 1905, by designation of Cockerell, 1933a:465. [Anthophora]. **Eucerini**.

Eucera Scopoli, 1770:8. Type species: *Apis longicornis* Linnaeus, 1758, by designation of Latreille, 1810:439. **Eucerini**.

Euceratina Hirashima, Moure, and Daly, 1971, in Hirashima, 1971a:369. Type species: *Apis callosa* Fabricius, 1794, by original designation. [Ceratina]. **Ceratinini**.

Eucerinoda Michener and Moure, 1957:445. Type species: *Anthophora gayi* Spinola, 1851, by original designation. **Eucerini**.

Euchalicodoma Tkalcú, 1969:358. Type species: *Megachile asiatica* Morawitz, 1875, by original designation. [Chalicodoma]. Isotypic with *Allomegachile*. **Megachilini**.

Eucharis Dalla Torre, 1896:300. Listed as a junior synonym of *Epicharis* and *Eucharis hirtipes* listed in synonymy on p. 301, and both attributed to Lepeletier [and Serville], 1825 (correctly 1828):794 and 795. Search of these and other pages of that work reveals no use of *Eucharis*, which therefore appears to be an error by Dalla Torre, and not available according to the Code, 3rd ed., Art. 11(c). **Centridini**.

Eucondylops Brauns, 1902:377. Type species: *Eucondylops konowi* Brauns, 1902, monobasic. **Allodapini**.

Eudioxyx Mavromoustakis, 1963c:443. Type species: *Dioxys quadrispinosa* Friese, 1899, by original designation. **Dioxyini**.

Euflorilegus Ogloblin, 1955:231. Type species: *Florilegus riparius* Ogloblin, 1955, by original designation. [Florilegus]. **Eucerini**.

Eufriesea Cockerell 1908a:41, replacement for *Eumorpha* Friese, 1899. Type species: *Euglossa pulchra* Smith, 1854, autobasic. **Euglossini**.

Eufriesia Lutz and Cockerell, 1920:544, unjustified emendation of *Eufriesea* Cockerell, 1908. **Euglossini**.

Euglages Gerstaecker, 1869:149. Type species: *Euglages scripta* Gerstaecker, 1869, monobasic. **Ammobatoidini**.

Euglossa Latreille, 1802a:436. Type species: *Apis cordata* Linnaeus, 1758, by designation of Blanchard, 1849:pl. 129 (1847). **Euglossini**.

Euglossella Moure 1967a:401, replacement for *Cnemidium* Perty, 1833. Type species: *Cnemidium viride* Perty, 1833, autobasic. [Euglossa]. **Euglossini**.

Euherbstia Friese, 1925a:8. Type species: *Euherbstia excellens* Friese, 1925, monobasic. **Andreninae**.

Euhesma Michener, 1965a:88. Type species: *Euryglossa wahlenbergiae* Michener, 1965, by original designation. [Euryglossa]. **Euryglossinae**.

Eulaema Lepeletier, 1841:11. Type species: *Apis dimidiata* Fabricius, 1793 = *Apis meriana* Olivier, 1789, by designation of Taschenberg, 1883:85. **Euglossini**.

Eulaenia Spinola, 1851:167, incorrect subsequent spelling of *Eulaema* Lepeletier, 1841. **Euglossini**.

Eulema Smith, 1854:380, unjustified emendation of *Eulaema* Lepeletier, 1841. **Euglossini**.

Eulonchopria Brèthes, 1909a:247. Type species: *Eulonchopria psaenythoides* Brèthes, 1909, monobasic. **Colletinae**.

Eumegachilana Michener, 1965a:191. Type species: *Megachile clotho* Smith, 1861, by original designation. [Chalicodoma]. **Megachilini**.

Eumegachile Friese, 1898b:198, no included species; Friese, 1899c:36, included species. Type species: *Megachile bombycinus* Radoszkowski, 1874, by designation of Cockerell, 1930c:209. **Megachilini**.

Eumelissa Snelling and Brooks, 1985:21. Type species: *Melissa decorata* Smith, 1854, by original designation. [Mesoplia]. **Ericrocidiini**.

Eumelissodes LaBerge, 1956:1177. Type species: *Melissodes agilis* Cresson, 1878, by original designation. [Melissodes]. **Eucerini**.

Eumorpha Friese 1899b: 126, not Hübner, 1807. Type species: *Euglossa pulchra* Smith, 1854, by designation of Cockerell, 1908a: 41 footnote. See *Eufriesea*. **Euglossini**.

Eunomia Cresson, 1875:723, not Hübner, 1818. Type species: *Eunomia marginipennis* Cresson, 1875 = *Nomia kirbii* Smith, 1865, by designation of Cockerell, 1910f:290. See *Dieunomia*. **Nomiinae**.

Eunomioides Blüthgen, 1937:3, nomen nudum, = *Ceylalictus*. Type species: *Andrena variegata* Olivier, 1789, by original designation. [Nomioides]. **Nomioidinae**.

Eupalaearhiza Meade-Waldo, 1914b:403. Type species: *Eupalaearhiza papuana* Meade-Waldo, 1914, by original designation. **Hylaeinae**.

Eupavlovskia Popov, 1955c:330. Type species: *Melecta funeralaria* Smith, 1854, by original designation. **Melectini**.

Eupetersia Blüthgen, 1928a:49. Type species: *Eupetersia neavei* Blüthgen, 1928, by original designation. Also published as new by Blüthgen, 1928b:165. **Halictini**.

Euphileremus Popov, 1951:906. Type species: *Phileremus oraniensis* Lepeletier, 1841, by original designation. [Ammobates]. **Ammobatini**.

Euplusia Moure 1943a:189, replacement for *Plusia* Hoffmannsegg, 1817. Type species: *Plusia superba* Hoffmannsegg, 1817, autobasic. **Euglossini**.

Euprosopellus Michener, 1965a:132. Type species: *Prosopis dromedaria* Cockerell, 1910, by original designation. [Hylaeus]. **Hylaeinae**.

Euprosopis Perkins, 1912:106. Type species: *Prosopis husela* Cockerell, 1910, by original designation. **Hylaeinae**.

Euprosopoides Michener, 1965a:131. Type species: *Prosopis fulvicornis* Smith, 1853 = *Prosopis ruficeps* Smith, 1853, by original designation. [Hylaeus]. **Hylaeinae**.

Euryapis Sandhouse, 1943:551, replacement for *Orbitella* Ma, 1938. Type species: *Xylocopa confusa* Pérez, 1901, autobasic and original designation. **Xylocopini**.

Euryglossa Smith, 1853:17. Type species: *Euryglossa cupreochalybea* Smith, 1853, by designation of Meade-Waldo, 1923:6. **Euryglossinae**.

Euryglossella Cockerell, 1910c:263. Type species: *Euryglossella minima* Cockerell, 1910, monobasic. **Euryglossinae**.

Euryglossidia Cockerell, 1910b:358. Type species: *Euryglossidia rectangulata* Cockerell, 1910, by original designation. **Colletinae**.

Euryglossimorpha Strand, 1910:40. Type species: *Euryglossa nigra* Smith, 1879, monobasic. [Euryglossa]. **Euryglossinae**.

Euryglossina Cockerell, 1910a:211. Type species: *Euryglossa semipurpurea* Cockerell, 1910, monobasic. [Euryglossa]. **Euryglossinae**.

Euryglossula Michener, 1965a:111. Type species: *Euryglossina chalcosoma* Cockerell, 1913, by original designation. **Euryglossinae**.

Eurmella Pasteels, 1965:64. Type species: *Megachile eurymera* Smith, 1854, by original designation. [Megachile]. **Megachilini**.

Eurypteriella Tkalcú, 1995:111. Type species: *Osmia demidata* Morawitz, 1880, by original designation. **Osmiini**.

Eurytis Smith, 1854:279. Type species: *Eurytis funereus* Smith, 1854, monobasic. **Eriocidini**.

Eusphecogastera Hirashima, 1992:395, replacement for *Sphecogaster* Hirashima, 1978. Type species: *Palaeorhiza paradisea* Hirashima, 1978, autobasic and by original designation. **Hylaeinae**.

Eusynhalonia Ashmead, 1899a:63. Type species: *Melissodes edwardsii* Cresson, 1878, by original designation. **Eucerini**.

Eutechnia Holmberg, 1903:400, *lapsus* for *Entechnia* Patton, 1879. **Emphorini**.

Euthosmia Sinha, 1958:235. Type species: *Heriades glaucum* Fowler, 1899, by original designation. [Osmia]. **Osmiini**.

Euthyglossa Radoszkowski, 1884:21. Type species: *Euthyglossa fasciata* Radoszkowski, 1884 = *Eucera euthyglossa* Dalla Torre, 1896, monobasic. **Osirini**.

Entricharaea Thomson, 1872:228. Type species: *Apis argentata* Fabricius, 1793, monobasic. [Megachile]. Isotypic with *Paramegachile*. **Megachilini**.

Eutrypetes Popov, 1955a:280. Type species: *Heriades turcomanica* Popov, 1955, by original designation. [Heriades]. **Osmiini**.

Euxylocopa Hurd and Moure, 1963:234. Type species: *Xylocopa fraudulenta* Gribodo, 1894 = *Xylocopa erythrina* Gribodo, 1894, by original designation. [Xylocopa]. Isotypic with *Perixylocopa* by synonymy. **Xylocopini**.

Eversmanniobus Skorikov, 1938a:145. Type species: *Mucidobombus eversmanniellus* Skorikov, 1922 = *Bombus eversmanni* Friese, 1911 (not *B. modestus eversmanni* Skorikov, 1910) = *Bombus persicus* Radoszkowski, 1881, by designation of Richards, 1968:214. [Agribombus]. **Bombini**.

Evodia Panzer, 1806:207. Type species: *Apis calendarum* Panzer, 1802 = *Apis succincta* Linnaeus, 1758, monobasic. Isotypic with *Colletes* by synonymy. **Colletinae**.

Evlaeus Robertson, 1902c:247. Type species: *Halictus arcuatus* Robertson, 1893, by original designation. **Halictini**.

Exaerete Hoffmannsegg, 1817:53. Type species: *Apis dentata* Linnaeus, 1758, monobasic. Isotypic with *Caliendra* and *Chrysantheda* by synonymy. **Euglossini**.

Exallocentris Snelling, 1974:35. Type species: *Centris anomala* Snelling, 1966, by original designation. [Centris]. **Centridini**.

Exanthidium Pasteels, 1969a:82. Type species: *Anthidium eximium* Giraud, 1863, by original designation. **Anthidiini**.

Exanthocopa Tkalcú, 1993a:55. Type species: *Osmia oxypyga* Benoist, 1927, by original designation. [Anthocopa]. **Osmiini**.

Exocletes Michener, 1965a:56. Type species: *Leioproctus impatellatus* Michener, 1965, by original designation. [Leioproctus]. **Colletinae**.

Exilobombus Skorikov, 1922b:150. Type species: *Mucidobombus exil* [misprinted *exiln*] Skorikov, 1922, monobasic. [Mucidobombus]. **Bombini**.

Exomalopsis Spinola, 1853:89. Type species: *Exomalopsis fulvipilosa* Spinola, 1853 = *Exomalopsis auropilosa* Spinola, 1853, by designation of Taschenberg, 1883:82. **Exomalopsini**.

Exoneura Smith, 1854:232. Type species: *Exoneura bicolor* Smith, 1854, monobasic. **Allodapini**.

Exoneurella Michener, 1963:257. Type species: *Exoneura lawsoni* Rayment, 1946, by original designation. **Allodapini**.

Exoneuridia Cockerell, 1911d:232. Type species: *Exoneura libanensis* Friese, 1899, by original designation. [Exoneura]. **Allodapini**.

Exoneurula Michener, 1966b:573. Type species: *Exoneurula zavattarii* Michener, 1966 = *Compsomelissa borneri* Alfken, 1924, by original designation. Isotypic with *Compsomelissa* by synonymy. **Allodapini**.

Exosmia Tkalcú, 1979:321. Type species: *Osmia difficilis* Morawitz, 1875, by original designation. [Osmia]. **Osmiini**.

Fahrhalictus Warncke, 1975b:95. Type species: *Halictus fahringeri* Friese, 1921, by original designation. [Halictus]. **Halictini**.

Fasciata Méhelý, 1935:44, 150. Type species: *Prosopis facialis* Pérez, 1895 = *Prosopis trinotata* Pérez, 1895, monobasic. [Prosopis]. **Hylaeinae**.

Fascista Popov, 1939:168, incorrect subsequent spelling for *Fasciata* Méhelý, 1935.

Fernaldaepsithyrsus Frison, 1927:70. Type species: *Psithyrus fernaldae* Franklin, 1911, monobasic. [Psithyrus]. **Bombini**.

Fertonella Cockerell, 1920a:257, replacement for *Perezia* Ferton, 1914. Type species: *Perezia maura* Ferton, 1914 = *Megachile leachella* Curtis, 1828, autobasic and original designation. **Megachilini**.

Fervidobombus Skorikov, 1922b:123, 153. Type species: *Apis fervida* Fabricius, 1798, by designation of Frison, 1927:69. **Bombini**.

Festivobombus Tkalcú, 1972:27. Type species: *Bombus festivus* Smith, 1861, by original designation. [Pyrobombus]. **Bombini**.

Fidelia Friese, 1899a:244. Type species: *Fidelia paradoxa* Friese, 1899, monobasic. **Fideliini**.

Filiglossa Rayment, 1959a:324. Type species: *Filiglossa filamentosa* Rayment, 1959, by original designation. **Colletinae**.

Fiorentinia Dalla Torre, 1896:334, replacement for *Epeicharis* Radoszkowski, 1884, not *Epicharis* Klug. Type species: *Epeicharis mexicanus* Radoszkowski, 1884, autobasic. **Tapinotaspidini**.

Flavipanurgus Warncke, 1972:69. Type species: *Panurgus flavus* Friese, 1897, by original designation. [Panurgus]. **Panurginae**.

Flavodufourea Ebmer, 1984:373. Type species: *Dufourea flavidicornis* Friese, 1913, by original designation. [Dufourea]. **Rophitinae**.

Flavomeliturgula Warncke, 1985:229. This name is not valid since no type species or even included species was indicated. From descriptions one can guess that Warncke intended this to be a subgeneric name for *Meliturgula deserta* Warncke. [Meliturgula]. **Panurginae**.

Florentina Ashmead, 1899a:67, lapsus for *Fiorentinia* Dalla Torre, 1896. **Tapinotaspidini**.

Florilegus Robertson, 1900:53. Type species: *Melissodes condigna* Cresson, 1879, monobasic. **Eucerini**.

Floriraptor Moure and Michener, 1955b:268. Type species: *Melissodes atropos* Smith, 1879 = *Tetralonia melectoides* Smith, 1879, by original designation. [Florilegus]. **Eucerini**.

Foersterapis Moure, 1964a:441. Type species: *Zikanapis foersteri* Moure and Seabra, 1962, by original designation. [Zikanapis]. **Caupolicanini**.

Formicapis Sladen, 1916a:271. Type species: *Formicapis clypeata* Sladen, 1916 = *Osmia robusta* Nylander, 1848, monobasic. **Osmiini**.

Foveosmia Warncke, 1991c:267. Type species: *Heriades foveolatus* Morawitz, 1868, by original designation. [Osmia]. **Osmiini**.

Fraternobombus Skorikov, 1922b:156. Type species: *Apathus fraternus* Smith, 1854, by designation of Frison, 1927:63. [Alpigenobombus]. **Bombini**.

Friesea Schrottky, 1902a:418, not Dalla Torre, 1895. Type species: *Friesea brasiliensis* Schrottky, 1902 = *Camptopoeum prinii* Holmberg, 1884, monobasic. See *Parafriesea*. **Panurginae**.

Friesella Moure, 1946a:441; 1946b:611. Type species: *Melipona schrottkyi* Friese, 1900, by original designation. **Meliponini**.

Frieseomelitta Lhering, 1912:5. Type species: *Trigona silvestrii* Friese, 1902, monobasic. **Meliponini**.

Fumandrena Warncke, 1974:98, nomen nudum. [Andrena]. **Andreninae**.

Fumandrena Warncke, 1975a:57. Type species: *Andrena fumida* Pérez, 1895, by original designation. [Andrena]. **Andreninae**.

Funebribombus Skorikov, 1922b:157. Type species: *Bombus funebris* Smith, 1854, monobasic. [Alpigenobombus]. **Bombini**.

Furcosmia Schmiedeknecht, 1885:22. Type species: *Apis papaveris* Latreille, 1799, by designation of Cockerell, 1922a:6. [Osmia]. Isotypic with *Anthocopa* and *Phyllotoma*. **Osmiini**.

Gaesischia Michener, LaBerge, and Moure, 1955:220. Type species: *Svastra fulgurans* Holmberg, 1903, by original designation. **Eucerini**.

Gaesischiana Michener, LaBerge, and Moure, 1955:224. Type species: *Gaesischia exul* Michener, LaBerge, and Moure, 1955, by original designation. [Gaesischia]. **Eucerini**.

Gaesischiopsis Michener, LaBerge, and Moure, 1955:221. Type species: *Gaesischia flavoclypeata* Michener, LaBerge, and Moure, 1955, by original designation. [Gaesischia]. **Eucerini**.

Gaesochira Moure and Michener, 1955b:283. Type species: *Gaesochira complanata* Moure and Michener, 1955 = *Melissodes obscurior* Dalla Torre, 1896, by original designation. **Eucerini**.

Gastrohalictus Ducke, 1902:102. Type species: *Halictus osmiooides* Ducke, 1902, monobasic. [Halictus]. **Haliertinae**.

Gastropsis Smith, 1868b:xxxix, replacement for *Oestropsis* Smith, 1868. Type species: *Oestropsis pubescens* Smith, 1868, autobasic. **Stenotritidae**.

Geandrena LaBerge, 1964:313. Type species: *Andrena caerulea* Smith, 1879, by original designation. [Andrena]. **Andreninae**.

Geissandrena LaBerge and Ribble, 1972:302. Type species: *Andrena trevoris* Cockerell, 1897, by original designation. [Andrena]. **Andreninae**.

Geniotrigona Moure, 1961:212. Type species: *Trigona thoracica* Smith, 1857, by original designation. **Meliponini**.

Genyandrena LaBerge, 1986:544. Type species: *Andrena mackieae* Cockerell, 1937, by original designation. [Andrena]. **Andreninae**.

Geoperdita Cockerell and Porter, 1899:415. Type species: *Perdita chamaesarachae* Cockerell, 1896, monobasic. [Perdita]. **Panurginae**.

Georgealictus Packer, 1993:1656. Type species: *Mexalictus polybiooides* Packer, 1993, by original designation. [Mexalictus]. **Halictini**.

Geotrigona Moure, 1943a:146. Type species: *Trigona mombuca* Smith, 1863, by original designation. [Trigona]. **Meliponini**.

Gephyrohylaeus Michener, 1965a:138. Type species: *Heterapis sandacanensis* Cockerell, 1919, by original designation. **Hylaeinae**.

Glossadufourea Ebmer, 1993:32. Type species: *Dufourea longiglossa* Ebmer, 1993, by original designation. **Rophitinae**.

Glossalictus Michener, 1965a:173. Type species: *Halictus etheridgei* Cockerell, 1916, by original designation. [Lasioglossum]. **Halictini**.

Glossamegilla Brooks, 1988:512. Type species: *Anthophora mesopyrrha* Cockerell, 1930, by original designation. [Megilla]. **Anthophorini**.

Glossodialictus Pauly, 1984a:704. Type species: *Glossodialictus wittei* Pauly, 1984, by original designation. **Halictini**.

Glossopasiphae Michener, 1989:643. Type species: *Leioproctus plaumannii* Michener, 1989, by original designation. [Leioproctus]. **Colletinae**.

Glossoperdita Cockerell, 1916c:43. Type species: *Glossoperdita pelargoides* Cockerell, 1916, monobasic. **Panurginae**.

Glossosmia Michener, 1943:84. Type species: *Osmia singularis* Morawitz, 1875, by original designation. [Osmia]. **Osmiini**.

Glossura Cockerell, 1917b:144. Type species: *Euglossa piliventris* Guérin-Méneville, 1845, by original designation. [Euglossa]. **Euglossini**.

Glossurella Dressler, 1982:131. Type species: *Euglossa bursigera* Moure, 1970, by original designation. [Euglossa]. **Euglossini**.

Glossurocolletes Michener, 1965a:60. Type species: *Leioproctus bilobatus* Michener, 1965, by original designation. [Leioproctus]. **Colletinae**.

Glossuropoda Moure, 1989c:387. Type species: *Euglossa intersecta* Latreille, 1837, by original designation. [Euglossa]. **Euglossini**.

Glyphandrena Hedicke, 1933:212. Type species: *Apis carbonaria* Linnaeus, 1767, by original designation. [Andrena]. **Andreninae**.

Glyptapis Cockerell, 1909d:314; also described as new by Cockerell, 1909e:13. Type species: *Glyptapis mirabilis* Cockerell, 1909, monobasic and designated by Cockerell, 1909e:14. **Fossil**.

Glyptobasia Moure, 1941a:98, replacement for *Glyptobasis* Moure, 1940. Type species: *Augochlora chloera* Moure, 1940, autobasic. [Augochlora]. **Augochlorini**.

Glyptobasis Moure, 1940:48, not M'Lachlan, 1871. Type species: *Augochlora chloera* Moure, 1940, by original designation. See *Glyptobasia*. [Augochlora]. **Augochlorini**.

Glyptochlora Moure, 1959:188. Type species: *Megalopta ornata* Smith, 1879, by original designation. [Augochloropsis]. **Augochlorini**.

Glyptocoelioxys Mitchell, 1973: 92. Type species: *Coelioxys vidua* Smith 1854, by original designation. [Coelioxys]. **Megachilini**.

Gnathanthidium Pasteels, 1969a:92. Type species: *Anthidium prionognathum* Mavromoustakis, 1935, by original designation. **Anthidiini**.

Gnathanthidium Urban, 1994b:337, not Pasteels, 1969. Type species: *Gnathanthidium sakagamii* Urban, 1992, by original designation. See *Michanthidium*. **Anthidiini**.

Gnathias Robertson, 1903d:173, 174, 175. Type species: *Nomada bella* Cresson, 1863, by original designation. **Nomadini**.

Gnathocera Provancher, 1882:232, not Kirby, 1825. Type species: *Gnathocera cephalica* Provancher, 1882 = *Megachile pugnatus* Say, 1837, monobasic. See *Sayapis*. Isotypic with *Ceratias* by synonymy. **Megachilini**.

Gnathodon Robertson, 1903a:168, not Oken, 1816, etc. Type species: *Megachile georgica* Cresson, 1878, monobasic. See *Sarogaster*. **Megachilini**.

Gnathopasites Linsley and Michener, 1939:272. Type species: *Phileremus fulviventris* Cresson, 1878, by original designation. Isotypic with *Neopasites*. **Biastini**.

Gnathoprosopis Perkins, 1912:104. Type species: *Prosopis xanthopoda* Cockerell, 1910 = *P. euxantha* Cockerell, 1910, by original designation. **Hylaeinae**.

Gnathoprosopoides Michener, 1965a:127. Type species: *Prosopis eburniella* Cockerell, 1912 = *Prosopis philoleucus* Cockerell, 1910, by original designation. [Hylaeus]. **Hylaeinae**.

Gnathosmia Robertson, 1903a:165. Type species: *Osmia georgica* Cresson, by original designation. **Osmiini**.

Gnathoxylolopa Hurd and Moure, 1963:182. Type species: *Xylocopa sicheli* Vachal, 1898, by original designation. [Xylocopa]. **Xylocopini**.

Gnathylaeus Bridwell, 1919:126, 133. Type species: *Gnathylaeus williamsi* Bridwell, 1919, by original designation. **Hylaeinae**.

Gonandrena Viereck, 1917:390. Type species: *Andrena persimilata* Viereck, 1917, monobasic. [Andrena]. **Andreninae**.

Gongyloprosopis Snelling, 1982:16. Type species: *Prosopis cruenta* Vachal, 1910, by original designation. [Hylaeus]. **Hylaeinae**.

Goniocolletes Cockerell, 1907c:231. Type species: *Goniocolletes morsus* Cockerell, 1907, by original designation. **Colletinae**.

Graecandrena Warncke, 1968:61. Type species: *Andrena gracella* Warncke, 1965, by original designation. [Andrena]. **Andreninae**.

Grafanthidium Urban, 1995b:435. Type species: *Grafanthidium amazonense* Urban, 1995, by original designation. **Anthidiini**.

Grafella Mitchell, 1980:56. Type species: *Pseudocentron crotalariae* Schwimmer, 1980, by original designation. [Pseudocentron]. **Megachilini**.

Greeleyella Cockerell, 1904d:235. Type species: *Greeleyella beardsleyi* Cockerell, 1904, by original designation. **Panurginae**.

Gressittapis Hirashima, 1978:65. Type species: *Palaeorhiza miranda* Hirashima, 1978, by original designation. [Palaeorhiza]. **Hylaeinae**.

Gronoceras Cockerell, 1907b:65. Type species: *Gronoceras wellmani* Cockerell, 1907 = *Megachile bombiformis* Gerstaecker, 1857, by original designation. **Megachilini**.

Grosapis Mitchell, 1980:46. Type species: *Megachile cockerelli* Rohwer, 1923, by original designation. [Eumegachile]. **Megachilini**.

Gulanthidium Pasteels, 1969a:101. Type species: *Anthidium anguliventre* Morawitz, 1888, by original designation. [Anthidium]. **Anthidiini**

Gundlachia Cresson, 1865:195, not Pfeiffer, 1850. Type species: *Centris ? cornuta* Cresson, 1865, monobasic. See *Heterocentris*. **Centridini**.

Gymnandrena Hedicke, 1933:212. Type species: *Apis thoracica* Fabricius, 1775, by original designation. [Andrena]. **Andreninae**.

Gynnus Spinola, 1808:9. Type species: *Apis aterrima* Panzer, 1798, not Christ, 1791 = *Apis punctulatissima* Kirby, 1802, monobasic. Isotypic with *Ceraplastes*, *Stelis*, *Trachusa* Jurine, and *Gyrodroma* Klug. **Anthidiini**.

Gyrodroma Klug, 1807, in Illiger, 1807:198; Klug, 1807b:225. Type species: *Apis aterrima* Panzer, 1798, not Christ, 1791 = *Apis punctulatissima* Kirby, 1802, designated by Sandhouse, 1943:555, who incorrectly considered *Gyrodroma* as monobasic: two species are listed by Klug in Illiger, 1807, which has page priority over Klug, 1807b. Isotypic with *Stelis*, *Trachusa* Jurine, and *Gynnus*. **Anthidiini**.

Gyrodroma Thomson, 1872:259, not Klug, 1807. Type species: *Heriades nigricornis* Nylander, 1848 = *Heriades rapunculi* Lepeletier, 1841, by designation of Cockerell, 1925b:205. See *Gyrodromella*. **Osmiini**.

Gyrodromella Michener, new name, replacement for *Gyrodroma* Thomson, 1872. Type species: *Heriades nigricornis* Nylander, 1848 = *Heriades rapunculi* Lepeletier, 1841, autobasic and present designation. *Gyrodromella* is considered a subgenus of *Chelostoma*. [Chelostoma]. **Osmiini**.

Habralictellus Moure and Hurd, 1982:46. Type species: *Halictus auratus* Ashmead, 1900, by original designation. **Halictini**.

Habralictus Moure, 1941a:59. Type species: *Habralictus flavopictus* Moure, 1941, by original designation. **Halictini**.

Habromelissa Hirashima and LaBerge, 1964, in Hirashima, 1964:71. Type species: *Andrena omogensis* Hirashima, 1953, by original designation. [Andrena]. **Andreninae**.

Habrophora Smith, 1854:318, not Erichson, 1846. Type species: *Habrophora ezonata* Smith, 1854 = *Tetralonia tarsata* Spinola, 1838, inverted autobasic, because of type designation for replacement name, *Habropoda*, by Patton, 1879a:477. **Anthophorini**.

Habrophorula Lieftinck, 1974:217. Type species: *Habropoda nubilipennis* Cockerell, 1930, by original designation. **Anthophorini**.

Habropoda Smith, 1854:320, replacement for *Habrophora* Smith, 1854. Type species: *Habrophora ezonata* Smith, 1854 = *Tetralonia tarsata* Spinola, 1838, by designation of Patton, 1879a:477. **Anthophorini**. The subsequent designation of "H.

zonata" by Taschenberg, 1883:79, is probably an error for *Habrophora ezonata* Smith, 1854.

Hackeriapis Cockerell, 1922b:267. Type species: *Megachile rhodura* Cockerell, 1906, by original designation. [Megachile]. **Megachilini**.

Hadrorrhiza Hirashima, 1980:108. Type species: *Prosopis imperialis* Smith, 1863, by original designation. [Palaeorhiza]. **Hylaeinae**.

Haetosmia Popov, 1952:104. Type species: *Osmia latipes* Morawitz, 1875 = *Osmia brachyura* Morawitz, 1875, monobasic. [Anthocopa]. **Osmiini**.

Halictanthrena Dueke, 1907:364. Type species: *Halictantherea malpighiacearum* Ducke, 1907, monobasic. **Colletinae**.

Halictillus Moure, 1947a:7. Type species: *Chloralictus loureiroi* Moure, 1941, by original designation. **Augochlorini**.

Halictoides Nylander, 1848:195. Type species: *Halictoides dentiventris* Nylander, 1848, by designation of Cockerell and Porter, 1899:420. **Rophitinae**.

Halictomorpha Schrottky, 1911:81. Type species: *Halictomorpha phaedra* Schrottky, 1911, by original designation. **Halictini**.

Halictonomia Pauly, 1980:123. Type species: *Halictus decenniaculatus* Friese, 1900, by original designation. [Nomia]. **Nomiinae**.

Halictus Latreille, 1804:182. Type species: *Apis quadricincta* Fabricius, 1776, by designation of Richards, 1935:170. *Apis rubricunda* Christ, 1791, designated by Curtis, 1833:pl. 448a, was not an originally included species. A discussion of type designations is in Michener (1978a). Omitted from that discussion was Westwood's (1840a:84) and Cockerell's (1931f:529) designation of *Apis sexcincta* Fabricius, 1775, as the type species of *Halictus*. As noted in that discussion, *A. sexcincta* was not an originally included species. Blanchard, 1849:pl. 125 (1847), designated "*Halictus flavipes* Panz." as the type species of the genus. He could have meant *Apis flavipes* Panzer, 1798, a nomen dubium according to Ebmer (1988). Blanchard, however, was careless about the authors' names placed after species names in the explanations of plates, and probably he actually meant to cite the well-known *Apis flavipes* Fabricius, 1787 (= *Apis tumulorum* Linnaeus, 1758), a species of the subgenus *Seladonia*, as the type species of *Halictus*. Fortunately, the name *Halictus*, with *Apis quadricincta* Fabricius, 1776, as the type species, is on the Official List of Generic Names in Zoology (Commission Opinion 1713, 1993). **Halictini**.

Halterapis Michener, 1969: 289. Type species: *Allodape nigrinervis* Cameron, 1905, by original designation. **Allodapini**.

Hamatothrix Urban, 1989:121. Type species: *Hamatothrix silvai* Urban, 1989, by original designation. **Eucerini**.

Haplocoelioxys Mitchell, 1973:85. Type species: *Coelioxys mexicana* Cresson, 1878, by original designation. [Coelioxys]. **Megachilini**.

Haplomalitita Cockerell, 1934a:446. Type species: *Rhinochaetula ogilviei* Cockerell, 1932, by original designation. **Dasypodinae**.

Haplosamba Michener, 1981:66. Type species: *Haplomelitta tridentata* Michener, 1981, by original designation. [Haplomelitta]. **Dasypodinae**.

Hauffapis Armbruster, 1938:37. Type species: *Hauffapis scheuthelei* Armbruster, 1938 = *Apis armbrusteri* Zeuner, 1931, by designation of Zeuner and Manning, 1976:243. *Hauffapis* is not a valid name because no type species was designated by Armbruster; original type designation is required for genus-group names proposed after 1930 [Code, 3rd ed., Art. 13(c)]. The subsequent type designation by Zeuner and Manning was in the synonymy of *Apis* and thus does not validate the name as *Hauffapis* Zeuner and Manning [Code, 3rd ed., Art. 11(c)]. **Fossil. Apini**.

Helicosmia Thomson, 1872:233, no included species; Schmiedeknecht, 1885:22, included species. Type species: *Apis aurulenta* Panzer, 1799, by designation of Michener, 1941:163. [Osmia]. **Osmiini**.

Heliomelissodes LaBerge, 1956:1172. Type species: *Melissodes desponsa* Smith, 1854, by original designation. [Melissodes]. **Eucerini**.

Heliophila Klug, 1807, in Illiger, 1807:197; Klug, 1807b:227. Type species: *Apis bimaculata* Panzer, 1798, monobasic. *Heliophila* is attributed in the literature to Klug. It was published in two consecutive articles in the same journal and thus simultaneously. The first article was by Illiger, who attributed the name to Klug; the second was by Klug. Dalla Torre (1896) listed both references under the species *bimaculata* but attributed the genus-group name to Klug, and may therefore be regarded as the first reviser, who decided the authorship of *Heliophila*. **Anthophorini**.

Hemicoelioxys Pasteels, 1968b:133. Type species: *Coelioxys gracilis* Pasteels, 1968 (not Schenck, 1868) = *Hemicoelioxys gracillima* Pasteels, 1977, by original designation. [Coelioxys]. **Megachilini**.

Hemicotelles Toro and Cabezas, 1977:46. Type species: *Lonchopria ruizii* Herbst, 1923, by original designation. **Colletinae**.

Hemidiellum Pasteels, 1972:112. Type species: *Eoanthidium semicarinatum* Pasteels, 1972, monobasic. [Eoanthidium]. **Anthidiini**.

Hemieucera Sิตdkov and Pesenko, 1988:88. Type species: *Eucera paraclypeata* Sิตdkov, 1988, by original designation. [Eucera]. **Eucerini**.

Hemihalictus Cockerell, 1897a:288. Type species: *Panurgus lustrans* Cockerell, 1897, by original designation. **Halictini**.

Heminomada Cockerell, 1902, in Cockerell and Atkins, 1902:42, footnote. Type species: *Nomada obliteratea* Cresson, 1863, by original designation. [Nomada]. **Nomadini**.

Hemiosmia Tkalcú, 1975a:34. Type species: *Osmia argyropyga* Pérez, 1879, by original designation. [Osmia]. **Osmiini**.

Hemirhiza Michener, 1965a:147. Type species: *Palaeorhiza melliceps* Cockerell, 1918, by original designation. **Hylaeinae**.

Hemisia Klug, 1807, in Illiger, 1807:198, nomen nudum. **Centridini**.

Hemisia Klug, 1807b:213, 227. Type species: *Apis haemorrhoidalis* Fabricius, 1775, by designation of Cockerell, 1906d:105. Isotypic with *Centris*. **Centridini**.

Hemisiella Moure, 1945c:407. Type species: *Apis lanipes* Fabricius, 1775, by original designation. **Centridini**.

Henicohesma Exley, 1968b:199. Type species: *Brachyhesma macdonaldensis* Exley, 1968, by original designation. [Brachyhesma]. **Euryglossinae**.

Herstiella Friese, 1916:168, not Stimpson, 1871. Type species: *Herstiella chilensis* Friese, 1916, monobasic. See *Kelita*. **Brachynomadini**.

Heriades Spinola, 1808:7. Type species: *Apis truncorum* Linnaeus, 1758, designated by Latreille, 1810:439. A subsequent designation was *Heriades rapunculi* Lepeletier, 1841, by Blanchard, 1849:pl. 126 (1846). Taschenberg, 1883:62, listed two species names without indicating that they are synonyms and therefore failed to designate a type species. Isotypic with *Trypetes*. **Osmiini**.

Heriadopsis Cockerell, 1931b:338. Type species: *Heriadopsis striatulus* Cockerell, 1931, by original designation. **Megachilini**.

Hesperandrena Timberlake, 1949, in Lanham, 1949:208. Type species: *Andrena escondida* Cockerell, 1938, by original designation. [Andrena]. **Andreninae**.

Hesperapis Cockerell, 1898a:147. Type species: *Hesperapis elegantula* Cockerell, 1898, monobasic. **Dasypodinae**.

Hesperocolletes Michener, 1965a:75. Type species: *Hesperocolletes douglasi* Michener, 1965, by original designation. **Colletinae**.

Hesperonomada Linsley, 1939b:5. Type species: *Hesperonomada melanantha* Linsley, 1939, by original designation. **Brachynomadini**.

Hesperoperdita Timberlake, 1954:374. Type species: *Perdita ruficauda* Cockerell, 1916, by original designation. [Perdita]. **Panurginae**.

Heteranthidium Cockerell, 1904b:292. Type species: *Anthidium dorsale* Lepeletier, 1841, by original designation. [Anthidium]. **Anthidiini**.

Heterapis Cockerell, 1911a:140, not Linston, 1889. Type species: *Heterapis delicata* Cockerell, 1911, by original designation. See *Heterapoides*. **Hylaeinae**.

Heterapoides Sandhouse, 1943:557, replacement for *Heterapis* Cockerell, 1911. Type species: *Heterapis delicata* Cockerell, 1911, autobasic. **Hylaeinae**.

Heterucera Tkalcú, 1978:167. Type species: *Eucera hispana* Lepeletier, 1841, by original designation. [Eucera]. **Eucerini**.

Heterocentrism Cockerell, 1899a:14, replacement for *Gundlachia* Cresson, 1865. Type species: *Centris ? cornuta* Cresson, 1865 = *Centris difformis* Smith, 1854, autobasic. Isotypic with *Rhodocentrism* by synonymy. **Centridini**.

Heterocolletes Rayment, 1935:184. Type species: *Paracolletes capillatus* Rayment, 1935, by original designation. [Paracolletes]. **Colletinae**.

Heteroediscelis Toro and Moldenke, 1979:112. Type species: *Chilicola mantagua* Toro and Moldenke, 1979, by original designation (misspelled *Heteroesdiscelis* in heading but correct elsewhere). **Xeromelissinae**.

Heterohesma Michener, 1965a:97. Type species: *Stilpnosoma clypeata* Rayment, 1954, by original designation. **Euryglossinae**.

Heteromegachile Rebmann, 1970:41. Type species: *Chalicodoma lefebvrei* Lepeletier, 1841, by original designation. [Megachile]. Isotypic with *Allochalicodoma*. **Megachilini**.

Heteroperdita Timberlake, 1954:365. Type species: *Perdita rhodogastra* Timberlake, 1954, by original designation. [Perdita]. **Panurginae**.

Heterorhiza Cockerell, 1929b:316. Type species: *Palaeorhiza melanura* Cockerell, 1910, by original designation. [Palaeorhiza]. **Hylaeinae**.

Heterosarus Robertson, 1918a:91. Type species: *Calliopsis parvus* Robertson, 1892, by original designation. **Panurginae**.

Heterosmia Tkalcú, 1993a:56, nomen nudum. [Osmia]. **Osmiini**.

Heterostelis Timberlake, 1941:125. Type species: *Stelis anthidioides* Timberlake, 1941, by original designation. [Stelis]. **Anthidiini**.

Heterotrigona Schwarz, 1939a:96. Type species: *Trigona itama* Cockerell, 1918, by original designation. [Trigona]. **Meliponini**.

Hexantheda Ogleblin, 1948:172. Type species: *Hexantheda missionica* Ogleblin, 1948, by original designation. **Colletinae**.

Hexaperdita Timberlake, 1954:416. Type species: *Perdita ignota* Cockerell, 1896, by original designation. [Perdita]. **Panurginae**.

Hexataenites Pesenko, 1984:348. Type species: *Apis sexcincta* Fabricius, 1775, by original designation. [Halictus]. **Halictini**.

Hexepeolus Linsley and Michener, 1937:77, 81. Type species: *Hexepeolus mojavensis* Linsley and Michener, 1937 = *Hexepeolus rhodogyne* Linsley and Michener, 1937, by original designation. **Hexepeolini**.

Hexosmia Michener, 1943:74. Type species: *Osmia copelandica* Cockerell, 1908, by original designation. [Anthocopa]. **Osmiini**.

Hofferia Tkalcú, 1984a:10. Type species: *Chelostoma schmiedeknechti* Schletterer, 1889, by original designation. **Osmiini**.

Holandrena Pérez, 1890:176. Type species: *Melitta labialis* Kirby, 1802, by designation of Hedicke, 1933:214. [Andrena]. **Andreninae**.

Holcomegachile Moure, 1953c:119. Type species: *Megachile giraffa* Schrottky, 1913, by original designation. [Megachile]. **Megachilini**.

Holcopasites Ashmead, 1899a:82, no species. Crawford (1915) included species. Type species: *Phileremus illinoiensis* Robertson, 1891, by designation of Crawford, 1915:123. **Ammobatoidini**.

Holmbergeria Jörgensen, 1912:100. Type species: *Holmbergeria cristariae* Jörgensen, 1912, monobasic. **Colletinae**.

Holmbergiapis Cockerell, 1918b:36. replacement for *Scirteca* Holmberg, 1903. Type species: *Scirteca antarctica* Holmberg, 1903, autobasic. See *Alloscirteca*. **Eucerini**.

Holohesma Michener, 1965a:102. Type species: *Stilpnosoma semisericea* Cockerell, 1905 = *Sericogaster fasciatus* Westwood, 1835, by original designation. Isotypic with *Sericogaster* by synonymy. **Euryglossinae**.

Holonomada Robertson, 1903d:174, 175, 176. Type species: *Nomada superba* Cresson, 1863, by original designation. **Nomadini**.

Homachthes Dalla Torre, 1896:499, unjustified emendation of *Omachthes* Gerstaeker, 1869. **Ammobatini**.

Homalictus Cockerell, 1919b:13. Type species: *Halictus taclobanensis* Cockerell, 1915, by original designation. [Halictus]. **Halictini**.

Homotrigona Moure, 1961:200. Type species: *Trigona fimbriata* Smith, 1857, by original designation. **Meliponini**.

Honanthidium Pasteels, 1969a:88. Type species: *Anthidium honestum* Cockerell, 1936, by original designation. **Anthidiini**.

Hoplandrena Pérez, 1890:170. Type species: *Melitta trimmerana* Kirby, 1802, by designation of Hedicke, 1933:214. [Andrena]. **Andreninae**.

Hoplepicharis Moure, 1945b:300. Type species: *Epicharis fasciata* Lepeletier and Serville, 1825, by original designation. **Centridini**.

Hopliphora Lepeletier, 1841:458. Type species: *Mesocheira velutina* Lepeletier and Serville, 1825, monobasic. Isotypic with *Oxy nedys* by synonymy. **Ericrocidini**.

Hoplitella Cockerell, 1910d:169, not Levinse, 1909. Type species: *Hoplitella pentamera* Cockerell, 1910 = *Ashmeadiella howardi* Cockerell, 1910, monobasic. See *Hoplitina*. **Osmiini**.

Hoplitina Cockerell, 1913:34, replacement for *Hoplitella* Cockerell, 1910. Type species: *Hoplitella pentamera* Cockerell, 1910 = *Ashmeadiella howardi* Cockerell, 1910, autobasic and by original designation. **Osmiini**.

Hoplitis Klug, 1807b:225. Type species: *Apis adunca* Panzer, 1798, monobasic. Isotypic with *Ctenosmia*. **Osmiini**.

Hoplitocopa Liefšinck, 1955:27. Type species: *Xylocopa assimilis* Ritsema, 1880, by original designation. [Xylocopa]. **Xylocopini**.

Hoplocolletes Michener, 1965a:42. Type species: *Dasycolletes ventralis* Friese, 1924, by original designation. [Leioproctus]. **Colletinae**.

Hoplonomia Ashmead, 1904b:4. Type species: *Hoplonomia quadrifasciata* Ashmead, 1904, by designation of Cockerell, 1910f:289. **Nomiinae**.

Hoplopasites Ashmead, 1898:284. Type species: *Phileremus productus* Cresson, 1879, by original designation. **Dioxyini**.

Hoploprosopis Hedicke, 1926:415. Type species: *Prosopis quadricornis* Hedicke, 1926, by original designation. [Prosopis]. **Hylaeinae**.

Hoplosmia Thomson, 1872:233, no included species; Schmiedeknecht, 1884:23, included species. Type species: *Apis spinulosa* Kirby, 1802, by designation of Michener, 1941:161. [*Osmia*]. **Osmiini**.

Hoplostelis Dominique, 1898:60, no valid included species; Griswold and Michener, 1988:36, included species. Type species: *Stelis abnormis* Friese, 1925 = *Anthidium bivittatum* Cresson, 1878, by designation of Griswold and Michener, 1988:36. Isotypic with *Odontostelis*. **Anthidiini**.

Hoploxylocoxa Hurd and Moure, 1963:260. Type species: *Xylocopa acutipennis* Smith, 1854, by original designation. [*Xylocopa*]. **Xylocopini**.

Hortibombus Skorikov, 1938a:146, unjustified emendation of *Hortobombus* Vogt, 1911. **Bombini**.

Hortobombus Vogt, 1911:56. Type species: *Apis hortorum* Linnaeus, 1761, by designation of Sandhouse, 1943:559. [*Bombus*]. **Bombini**.

Hylaeana Michener, 1954:28. Type species: *Hylaeus panamensis* Michener, 1954, by original designation. [*Hylaeus*]. **Hylaeinae**.

Hylaeoides Dalla Torre, 1896:51, unjustified emendation of *Hyleoides* Smith, 1853. **Hylaeinae**.

Hylaeopsis Michener, 1954:27. Type species: *Prosopis mexicana* Cresson, 1869, by original designation. [*Hylaeus*]. **Hylaeinae**.

Hylaeorhiza Michener, 1965a:141. Type species: *Prosopis nubilosa* Smith, 1853, by original designation. **Hylaeinae**.

Hylaeosoma Ashmead, 1898:284. Type species: *Hylaeosoma longiceps* Ashmead, 1898, by original designation. **Xeromelissinae**.

Hylaeteron Michener, 1965a:126. Type species: *Prosopis pulchrifrons* Cockerell, 1915 = *Euryglossa semirufa* Cockerell, 1914, by original designation. [*Hylaeus*]. **Hylaeinae**.

Hylaeus Fabricius, 1793:302. Type species: *Prosopis annulata* Fabricius, 1804 = *Apis annulata* Linnaeus, 1758, by designation of Latreille, 1810:438. *Sphex signata* Panzer, 1798 = *Mellinus bipunctatus* Fabricius, 1798, designated by Blanchard, 1849:pl. 125 (1847) was not originally included. **Hylaeinae**. *Apis quadricincta* Fabricius, 1776, was designated as the type species of *Hylaeus* by Warncke, 1970:747. Warncke's arguments do not justify this designation, which would transfer the name *Hylaeus* from the Colletidae to the Halictidae. Isotypic with *Halictus*. **Halictinae**.

Hyleoides Smith, 1853:32. Type species: *Vespa concinna* Fabricius, 1775, by designation of Taschenberg, 1883:45. **Hylaeinae**.

Hyloeoosoma Ashmead, 1899b:376, error for *Hylaeosoma* Ashmead, 1898. **Xeromelissinae**.

Hypanthidioides Moure, 1947a:35. Type species: *Anthidium flavofasciatum* Schrottky, 1902, by original designation. **Anthidiini**.

Hypanthidioides Michener, 1948a:22; Moure and Urban, 1975:837; Urban, 1993:28, error for *Hypanthidioides* Moure, 1947. **Anthidiini**.

Hypanthidium Cockerell, 1904b:292. Type species: *Anthidium flavomarginatum* Smith, 1879, by original designation. **Anthidiini**.

Hyperandrena Pittioni, 1948:58. Type species: *Apis bicolorata* Rossi, 1790, by original designation. [*Andrena*]. **Andreninae**.

Hyphesma Michener, 1965a:103. Type species: *Pachyprosopis atromicans* Cockerell, 1913, by original designation. **Euryglossinae**.

Hypnorobombus Quilis, 1927:97. Type species: *Apis hypnorum* Linnaeus, 1758, monobasic. [*Bombus*]. Isotypic with *Pyrobombus*, *Anodontobombus*, and *Uncobombus*. **Bombini**.

Hypochrotaenia Holmberg, 1886b:234, 273. Type species: *Hypochrotaenia parvula* Holmberg, 1886, monobasic. **Nomadini**.

Hypomacroteria Cockerell and Porter, 1899:418. Type species: *Hypomacroteria callops* Cockerell and Porter, 1899, by original designation. **Panurginae**.

Hypotrigona Cockerell, 1934b:47. Type species: *Trigona gribodoi* Magretti, 1884, by original designation. [*Trigona*]. **Meliponini**.

Icteranthidium Michener, 1948a:25. Type species: *Anthidium limbiferum* Morawitz, 1875, by original designation. **Anthidiini**.

Idiomelissodes LaBerge, 1956:1027. Type species: *Melissodes duplocincta* Cockerell, 1905, by original designation. [*Melissodes*]. **Eucerini**.

Idioprosopis Meade-Waldo, 1914a:451. Type species: *Idioprosopis chalcidiformis* Meade-Waldo, 1914, by original designation. **Xeromelissinae**.

Immanthidium Pasteels, 1969a:89. Type species: *Anthidium immaculatum* Smith, 1854, by original designation. **Anthidiini**.

Imperfecta Méhely, 1935:48, 154. Invalid because no type species was designated. [*Prosopis*]. Sandhouse's (1943:560) view that Popov (1939) designated a type species and thus validated the name is incorrect. **Hylaeinae**.

Indanthidium Michener and Griswold, 1994a:315. Type species: *Indanthidium crenulaticauda* Michener and Griswold, 1994, by original designation. **Anthidiini**.

Indohalictus Blüthgen, 1931:291. Type species: *Halictus buccinus* Vachal, 1894, by original designation. [*Halictus*]. **Halictini**.

Inhalictus Warncke, 1975b:96. Type species: *Hylaeus interrups* Panzer, 1798, by original designation. [*Halictus*]. **Halictini**.

Inquilina Michener, 1961:179. Type species: *Exoneura excavata* Cockerell, 1922, by original designation. **Allodapini**.

Iomelissa Robertson, 1900:50. Type species: *Andrena violae* Robertson, 1891, monobasic. **Andreninae**.

Ioxylölocoxa Hurd and Moure, 1963:116. Type species: *Xylocopa chrysopoda* Schrottky, 1902, by original designation. [*Xylocopa*]. **Xylocopini**.

Ischnocera Shuckard, 1840:166, no included species; Smith, 1854:284 included *Ischnocera* as a synonym of *Ctenioschelus*, with the single species *latreillii* Lepeletier. Type species: *Melissoda latreillii* Lepeletier, 1841 = *Acanthopus goryi* Romand, 1840, first included species. *Ctenioschelus* Romand was published in November, 1840. *Ischnocera* Shuckard probably appeared in December, 1840, for in the preface of the volume in which this name was proposed is a note dated "Nov. 1840," and a copy of the volume in the Natural History Museum, London, bears the handwritten notation "Dec. 1840" (information thanks to Julie Harvey, Librarian). *Ctenioschelus* therefore appears to have priority, as well as universal usage since 1840. Isotypic with *Ctenioscelus* by synonymy. **Ericocidini.**

Isepeolus Cockerell, 1907b:64. Type species: *Isepeolus albopictus* Cockerell, 1907 = *Epeolus viperinus* Holmberg, 1886, monobasic. Isotypic with *Palinepeolus* and *Calospiloma* by synonymy. **Isepeolini.**

Isomalopsis Michener and Moure, 1957:434. Type species: *Tetralonia niveata* Friese, 1908, by original designation. **Exomalopsini.**

Isosmia Michener and Sokal, 1957:159. Type species: *Anthocopa rubrella* Michener, 1949, by original designation. [Anthocopa]. **Osmiini.**

Jaxartinula Popov, 1963:865. Type species: *Jaxartinula malyshevi* Popov, 1963, by original designation. **Osmiini.**

Kallobombus Dalla Torre, 1880:40. Type species: *Apis soroeensis* Fabricius, 1776, by designation of Sandhouse, 1943:561. [Bombus]. Isotypic with *Soroeensibombus*. **Bombini.**

Katamegachile Rebmann, 1970:43. Type species: *Megachile manicata* Giraud, 1861, by original designation. [Megachile]. **Megachilini.**

Kelita Sandhouse, 1943:561, replacement for *Herbstiella* Friese, 1916. Type species: *Herbstiella chilensis* Friese, 1916, autobasic. **Brachynomadini.**

Kelneriapis Sakagami, 1978(June):232. Type species: *Trigona eocenica* Kelner-Pillault, 1970, monobasic. Isotypic with *Kelnermelia*. **Fossil. Meliponini.**

Kelnermelia Moure and Camargo, 1978(Nov. 17): 565. Type species: *Trigona eocenica* Kelner-Pillault, 1970, by original designation. Isotypic with *Kelneriapis*. **Fossil. Meliponini.**

Kirbya Lepeletier, 1841:145, not Robineau-Desvoidy, 1830. Type species: *Melitta tricincta* Kirby, 1802, by designation of Sandhouse, 1943:561. Not replaced because synonym of *Melitta*. Isotypic with *Melitta*. **Melittinae.**

Koptobaster Popov, 1939:168, error for *Koptogaster* Alfken, 1912. [Prosopis]. **Hylaeinae.**

Koptogaster Alfken, 1912:23. Type species: *Prosopis bifasciata* Jurine, 1807, by designation of Meade-Waldo, 1923:16. [Prosopis]. **Hylaeinae.**

Koptorthosoma Dalla Torre, 1896:202, unjustified emendation of *Koptortosoma* Gribodo, 1894. **Xylocopini.**

Koptortosoma Gribodo, 1894:271. Type species: *Koptortosoma gabonica* Gribodo, 1894, by designation of Sandhouse,

1943:561. Vitzthum (1930) implied that *Apis aestuans* Linnaeus, 1758, should be the type species of *Koptorthosoma*, but his wording does not unambiguously make a type designation. Both *gabonica* and *aestuans* were originally included species and both fall in the subgenus *Koptortosoma* as now understood. **Xylocopini.**

Kozlovibombus Skorikov, 1922b:152. Type species: *Bombus kozlovi* Skorikov, 1909 = *Bombus keriensis* Morawitz, 1886, by designation of Sandhouse, 1943:561. **Bombini.**

Kozlowibombus Bischoff, 1936:10. unjustified emendation of *Kozlovibombus* Skorikov, 1922. [Bombus]. **Bombini.**

Kumobia Popov, 1962:300. Type species: *Osmia tenuicornis* Morawitz, 1875, by original designation. **Osmiini.**

Kylopasiphae Michener, 1989:641. Type species: *Leioproctus pruinosus* Michener, 1989, by original designation. [Leioproctus]. **Colletinae.**

Laboriopsithyrus Frison, 1927:69. Type species: *Bombus laboriosus* Fabricius, 1804, by original designation. The specific name was misapplied by Frison and others, who considered it to be a species of *Psithyrus*. See *Citrinopsithyrus* and Williams (1991). [Psithyrus]. **Anthophorini.**

Labrohalictus Pauly, 1981:719. Type species: *Lasioglossum saegeri* Pauly, 1981, monobasic. [Lasioglossum]. **Halictini.**

Laccohylaenus Houston, 1981:88. Type species: *Prosopis cyanophila* Cockerell, 1910, by original designation. [Hylaeus]. **Hylaeinae.**

Laesibombus Skorikov, 1938a:145, unjustified emendation of *Laesobombus* Krüger, 1920 or Skorikov, 1922. **Bombini.**

Laesobombus Krüger, 1920:350. Type species: *Bombus laesus* Morawitz, 1875, monobasic. [Agrobombus]. Isotypic with *Laesobombus* Skorikov. **Bombini.**

Laesobombus Skorikov, 1922b:150. Type species: *Bombus laesus* Morawitz, 1875, monobasic. [Agrobombus]. Junior synonym and homonym of *Laesobombus* Krüger. Isotypic with *Laesobombus* Krüger. **Bombini.**

Lagobata Smith, 1861:151. Type species: *Lagobata diligens* Smith, 1861 = *Ancyliscelis ornata* Spinola, 1853, monobasic. **Tetrapediini.**

Lagripoda Vachal, 1909b:7. Latinization of *Lagripode* Lepeletier and Serville, 1828; these authors gave a few characters but included no species. **Unrecognizable.**

Lagripode Lepeletier and Serville, 1828:795. French vernacular; see *Lagripoda* Vachal, 1909. **Unrecognizable.**

Lambdopsis Mélély, 1935:65, 171. Invalid because no type species was designated. [Prosopis]. **Hylaeinae.**

Lambdopsis Popov, 1939:169. Type species: *Melitta annularis* Kirby, 1802, by original designation. [Prosopis]. **Hylaeinae.**

Laminomada Rodeck, 1947:266. Type species: *Nomada hesperia* Cockerell, 1903, by original designation. [Nomada]. **Nomadini.**

Lampralictus Pesenko, 1984:348. Type species: *Halictus modernus* Morawitz, 1876, by original designation. [Halictus]. **Halictini.**

Lamproapis Cameron, 1902a:419. Type species: *Lamproapis maculipennis* Cameron, 1902, monobasic. **Nomadini**.

Lamprocolletes Smith, 1853:10. Type species: *Andrena chalybeata* Erichson, 1851, by designation of Cockerell, 1905a:345. Isotypic with *Nodocolletes* by synonymy. **Colletinae**.

Lanthanella Michener and Moure, 1957:417. Type species: *Lanthanomelissa completa* Michener and Moure, 1957, by original designation. [Lanthanomelissa]. **Tapinotaspidini**.

Lanthanomelissa Holmberg, 1903:418. Type species: *Lanthanomelissa discrepans* Holmberg, 1903, monobasic. **Tapinotaspidini**.

Lapidariobombus Skorikov, 1938a:145, unjustified emendation of *Lapidariobombus* Vogt, 1911. **Bombini**.

Lapidariobombus Vogt, 1911:58. Type species: *Apis lapidaria* Linnaeus, 1758, by designation of Sandhouse, 1943:562. [Bombus]. Isotypic with *Melanobombus*. **Bombini**.

Lapponicobombus Quilis, 1927:19, 22, 63. Type species: *Apis lapponica* Fabricius, 1793, by designation of Milliron, 1961:58. [Bombus]. **Bombini**.

Larandrena LaBerge, 1964:304. Type species: *Andrena miserabilis* Cresson, 1872, by original designation. [Andrena]. **Andreninae**.

Largella Pasteels, 1965:534. Type species: *Megachile semivestita* Smith, 1853, by original designation. [Chalicodoma]. **Megachilini**.

Larinostelis Michener and Griswold, 1994a:317. Type species: *Larinostelis scapulata* Michener and Griswold, 1994, by original designation. **Anthidiini**.

Lasanthidium Romankova, 1988:26. Type species: *Stelis malaisei* Popov, 1941, by original designation. **Anthidiini**.

Lasioglossum Curtis, 1833:448. Type species: *Lasioglossum tricingulum* Curtis, 1833 = *Melitta xanthopus* Kirby, 1802, by original designation. **Halictini**.

Lasius Jurine, 1801:164. Type species: *Apis quadrimaculata* Panzer, 1798, monobasic. Suppressed by Commission Opinion 135 (1939), Direction 4. Isotypic with *Dasymegilla*. **Anthophorini**.

Lasius Panzer, 1804b:tab. 16. Type species: *Lasius salviae* Panzer, 1804 = *Anthophora crinipes* Smith, 1854, monobasic. Suppressed by Commission Opinion 151 (1944), Direction 4. According to Opinion 151, the correct date for *Lasius* Panzer is [1801-1802]; see Literature Cited. **Anthophorini**.

Legnanthidium Griswold and Michener, 1988:27. Type species: *Anthidium ridingsii* Cresson, 1878, by original designation. [Trachusa]. **Anthidiini**.

Leimelissa Osynchnyuk, 1984b:20. Type species: *Andrena bairucumensis* Morawitz, 1876, by original designation. [Andrena]. **Andreninae**.

Leiopodus Smith, 1854:252. Type species: *Leiopodus lacertinus* Smith, 1854, monobasic. **Protepeolini**.

Leioproctus Smith, 1853:8. Type species: *Leioproctus imitatus* Smith, 1853, by designation of Cockerell, 1905a:348. **Colletinae**.

Lepidandrena Hedicke, 1933:215. Type species: *Andrena curvungula* Thomson, 1870, by original designation. [Andrena]. **Andreninae**.

Lepidorhopalomelissa Wu, 1985:58. Type species: *Nomia burmica* Cockerell, 1920, by original designation. [Rhopalomelissa]. **Nomiinae**.

Lepidotrigona Schwarz, 1939a:132. Type species: *Trigona nitidiventris* Smith, 1857, by original designation. [Trigona]. **Meliponini**.

Leptergates Holmberg, 1887b:224, nomen nudum. **Emphorini**.

Leptergatis Holmberg, 1903:422. Type species: *Leptergatis halictoides* Holmberg, 1903, by designation of Lutz and Cockerell, 1920:592. **Emphorini**.

Leptoglossa Friese, 1925a:9, not Klug, 1839. Type species: *Leptoglossa paradoxa* Friese, 1925 = *Orphana inquirenda* Vachal, 1909, monobasic. See *Orphana*. Isotypic with *Ptoleglossa*; isotypic with *Orphana* by synonymy. **Andreninae**.

Leptometria Holmberg, 1903:409. Type species: *Leptometria pereyrae* Holmberg, 1903, by designation of Brèthes, 1910:213. **Emphorini**.

Leptophanthus Ruz and Toro, 1983:277. Type species: *Psaenythia nigra* Friese, 1916 (not Friese, 1908) = *Liphanthus nitidus* Ruz and Toro, 1983, by original designation. [Liphanthus]. **Panurginae**.

Leptorachina Mitchell, 1980:56. Type species: *Megachile laeta* Smith, 1853, by original designation. [Pseudocentron]. **Megachilini**.

Leptorachis Mitchell, 1934:301, 308. Type species: *Megachile petulans* Cresson, 1878, by original designation. [Megachile]. **Megachilini**.

Lestis Lepeletier and Serville, 1828:799. Type species: *Apis bombylans* Fabricius, 1775 (misidentified as *Apis muscaria* Fabricius, 1775; see Hurd and Michener, 1961), monobasic, fixed by Commission Opinion 657 (1963). **Xylocopini**.

Lestrimelitta Friese, 1903a:361. Type species: *Trigona limao* Smith, 1863, monobasic. [Trigona]. **Meliponini**.

Leucandrena Hedicke, 1933:215. Type species: *Apis sericea* Christ, 1791 (not Forster, 1771) = *Melitta barbilabris* Kirby, 1802, by original designation. [Andrena]. **Andreninae**.

Leuchalictus Warncke, 1975b:98. Type species: *Apis leucozonaria* Schrank, 1781, by original designation. [Halictus]. **Halictini**.

Leucobombus Dalla Torre, 1880:40. Type species: *Apis terrestris* Linnaeus, 1758, by designation of Sandhouse, 1943:564. [Bombus]. Isotypic with *Bremus* Jurine, *Bremus* Panzer, *Bombus*, and *Terrestribombus*. **Bombini**.

Leuconomia Pauly, 1980:124. Type species: *Nomia candida* Smith, 1875, by original designation. [Nomia]. **Nomiinae**.

Leucosmia Robertson, 1903a:166, 171. Type species: *Osmia albiventris* Cresson, 1864, by original designation. **Osmiini**.

Leucostelis Noskiewicz, 1961:126, 132. Type species: *Gyrodroma ornatula* Klug, 1807, by original designation (p. 132). [Stelis]. **Anthidiini**.

Leurotrigona Moure, 1950a:244. Type species: *Trigona muelleri* Friese, 1900, by original designation. [Hypotrigona]. **Meliponini**.

Libellulapis Cockerell, 1906a:42. Type species: *Libellulapis antiquorum* Cockerell, 1906, monobasic. **Fossil**.

Lieftinckella Hurd and Moure, 1963:286. Type species: *Xylocopa smithii* Ritsema, 1876, by original designation. [Xylocopa]. **Xylocopini**.

Lioceratina Vecht, 1952:32. Type species: *Ceratina flavopicta* Smith, 1858, by original designation. [Ceratina]. **Ceratinini**.

Liogastra Perty, 1833:146. Type species: *Liogastra bicolor* Perty, 1833 = *Rhathymus bicolor* Lepeletier and Serville, 1828, monobasic. Isotypic with *Colax* and *Rhathymus* by synonymy. **Rhathymini**.

Liopodus Schulz, 1906:258, unjustified emendation of *Leiopodus* Smith, 1854. **Protepeolini**.

Liopoeodes Ruz, 1991:236. Type species: *Calliopsis xenopous* Ruz, 1991, by original designation. [Calliopsis]. **Panurginae**.

Liopoeum Friese, 1906b:176. Type species: *Camptopaeum hirsutulum* Spinola, 1851, by designation of Sandhouse, 1943:564. [Camptopoeum]. **Panurginae**.

Lioprotus Smith, 1879:6, unjustified emendation of *Leioprotus* Smith, 1853. **Colletinae**.

Liosmia Thomson, 1872:233, no included species; Friese, 1911b:438, included species. Type species: *Osmia claviventris* Thomson, 1872, by designation of Michener, 1941:159. [Osmia]. **Osmiini**.

Liothgraphis Sandhouse, 1943:564, incorrect subsequent spelling of *Liothgrapis* Cockerell, 1932. **Megachilini**.

Liothgrapis Cockerell, 1932:26, incorrect subsequent spelling of *Liothyrapis* Cockerell, 1911. [Coelioxys]. **Megachilini**.

Liothyrapis Cockerell, 1911b:246. Type species: *Coelioxys apicata* Smith, 1854 = *Coelioxys decipiens* Spinola, 1838, by original designation. [Coelioxys]. **Megachilini**.

Liotrigona Moure, 1961:223. Type species: *Trigona bottegoi* Magretti, 1895 = ? *Trigona madecassa* Saussure, 1891, by original designation. **Meliponini**.

Liphanthus Reed, 1894:645. Type species: *Liphanthus sabulosus* Reed, 1894, monobasic. **Panurginae**.

Lipotriches Gerstaecker, 1857:460. Type species: *Lipotriches abdominalis* Gerstaecker, 1857 = *Sphecodes cribrosa* Spinola, 1843, monobasic. **Nomiinae**.

Lisotrigona Moure, 1961:194. Type species: *Melipona cacciae* Nurse, 1907, by original designation. **Meliponini**.

Lissopedia Moure, 1994b:306. Type species: *Tetrapedia globulosa* Friese, 1899, by original designation. **Tapinotaspidini**

Lithandrena Cockerell, 1906a:44. Type species: *Lithandrena saxorum* Cockerell, 1906, monobasic. **Fossil**.

Lithanthidium Cockerell, 1911d:225. Type species: *Lithanthidium perriste* Cockerell, 1911, monobasic. **Fossil**.

Lithosmia Alfken, 1935:188. Type species: *Megachile villosa* Schenck, 1853, not *Apis villosa* Fabricius, 1775 = *Osmia platycera* Gerstaecker, 1869. [Osmia]. Isotypic with *Arctosmia*. **Osmiini**.

Lithurge Latreille, 1825:463. Type species: *Andrena cornuta* Fabricius, 1787, monobasic. Latreille's original spelling (1825) has been regarded by many authors as French vernacular unavailable as a scientific name (e.g., Fox, 1902). Such authors use the emended Latinized form *Lithurgus* Berthold (1827), published in a translation of Latreille's work into German. The spelling *Lithurge*, as noted by Fox (1902), was used by Lepeletier and Serville (1828:795) but they were writing in French and used other French vernacular names. *Lithurge* was shown as the correct name by Sandhouse (1943) and has since been used by Michener (1944, 1951), Hurd (1979), and others in major studies and catalogues. I now believe, however, that the authors using *Lithurgus* are correct. **Lithurgini**.

Lithurgomma Moure, 1949b:277. Type species: *Lithurgomma wagenknechti* Moure, 1949, by original designation. *Trichothurgus* Moure and *Lithurgomma* were published simultaneously. Michener (1983) synonymized these names as first reviser and selected *Trichothurgus* as the generic name. **Lithurgini**.

Lithurgopsis Fox, 1902:138. Type species: *Lithurgus apicalis* Cresson, by original designation. **Lithurgini**.

Lithurgus Berthold, 1827:467, Latinization of *Lithurge* Latreille, 1825. Type species: *Andrena cornuta* Fabricius, 1787, monobasic. Blanchard, 1849:pl. 127 (1846), designated as the type species *Lithurgus fuscipennis* Lepeletier, 1841, which was not originally included. **Lithurgini**.

Litomegachile Mitchell, 1934:301, 308. Type species: *Megachile brevis* Say, 1837, by original designation. [Megachile]. **Megachilini**.

Liturgus Ashmead, 1899a:77, error for *Lithurgus* Berthold, 1827. **Lithurgini**.

Lobonomia Warncke, 1976:99. Type species: *Nomia lobata* Olivier, 1811, by original designation. [Nomia]. **Nomiinae**.

Lomatalictus Michener, 1978a:509. Type species: *Halictus malachurinus* Cockerell, 1937, by original designation. [Patellapis]. **Halictini**.

Lonchoprella Michener, 1989:673. Type species: *Lonchopria annexens* Michener, 1989, by original designation. [Lonchopria]. **Colletinae**.

Lonchopria Vachal, 1905a:204. Type species: *Lonchopria herbsti* Vachal, 1905 = *Colletes zonalis* Reed, 1892, monobasic. **Colletinae**.

Lonchorhyncha Michener, 1989:667. Type species: *Diphaglossa ecuadaria* Friese, 1925, by original designation. **Colletinae**.

Lophalictus Pesenko, 1986a:125. Type species: *Lasiglossum acuticrista* Pesenko, 1986, by original designation. [Lasioglossum]. **Halictini**.

Lophanthophora Brooks, 1988:464. Type species: *Anthophora porterae* Cockerell, 1900, by original designation. [Anthophora]. **Anthophorini**.

Lophopedia Michener and Moure, 1957:413. Type species: *Tetrapedia pygmaea* Schrottky, 1902, by original designation. [Paratetrapedia]. **Tapinotaspidini**.

Lophothygater Moure and Michener, 1955b:313. Type species: *Tetralonia decorata* Smith, 1879, by original designation. **Eucerini**.

Lophotrigona Moure, 1961:205. Type species: *Trigona canifrons* Smith, 1857, by original designation. **Meliponini**.

Loxoptilus LaBerge, 1957:28. Type species: *Loxoptilus longifellator* LaBerge, 1957, by original designation. **Eucerini**.

Lucasellus Schulz, 1911:202, replacement for *Lucasius* Dours, 1872. Type species: *Halictus clavipes* Dours, 1872, autobasic. [Halictus]. **Halictini**.

Lucasiellus Cockerell, 1905d:272, replacement for *Lucasius* Dours, 1872. Type species: *Halictus clavipes* Dours, 1872, autobasic. [Halictus]. **Halictini**.

Lucasius Dours, 1872:350, not Kinahan, 1859. Type species: *Halictus clavipes* Dours, 1872, by designation of Sandhouse, 1943:566. [Halictus]. See *Lucasellus* and *Lucasiellus*. **Halictini**.

Lutziella Cockerell, 1922d:1, not Enderlein, 1922. Type species: *Perdita opuntiae* Cockerell, 1922, by original designation. [Perdita]. See *Cockerellula*. **Panurginae**.

Lysicolletes Rayment, 1935:208. Type species: *Paracolletes singularis* Rayment, 1935, by original designation. [Paracolletes]. **Colletinae**.

Machaeris Robertson, 1903b:104. Type species: *Sphecodes stygius* Robertson, 1893, by original designation. **Halictini**.

Macrocerata Latreille, 1810:339, 439, not Meigen, 1803. Type species: *Eucera antennata* Fabricius, 1793 = *Apis malvae* Rossi, 1790, by original designation. See *Tetralonia*. **Eucerini**.

Macrogalea Cockerell, 1930f:291. Type species: *Allodape candida* Smith, 1879, by original designation. **Allodapini**.

Macroglossa Radoszkowski, 1884:17, not Ochsenheimer, 1816. Type species: *Macroglossa oribazi* Radoszkowski, 1884 = *Macrocerata analis* Lepeletier, 1841, monobasic. See *Macroglossapis*. **Eucerini**.

Macroglossapis Cockerell, 1899c:14, replacement for *Macroglossa* Radoszkowski, 1884. Type species: *Macroglossa oribazi* Radoszkowski, 1884 = *Macrocerata analis* Lepeletier, 1841, autobasic. Isotypic with *Thygater* by synonymy. **Eucerini**.

Macrohylaeus Michener, 1965a:133. Type species: *Prosopis vidua* Smith, 1853 = *Prosopis alcyonea* Erichson, 1842, by original designation. [Hylaeus]. **Hylaeinae**.

Macromegachile Noskiewicz, 1948:48. Type species: *Apis lagopoda* Linnaeus, 1761, by original designation. Mitchell, 1980:23, incorrectly listed *Apis maritima* Kirby, 1802, as the type species. [Megachile]. **Megachilini**.

Macronomadopsis Rozen, 1958:93. Type species: *Nomadopsis micheneri* Rozen, 1958, by original designation. [Nomadopsis]. **Panurginae**.

Macronomia Cockerell, 1917c:468. Type species: *Nomia platycephala* Cockerell, 1917, by original designation. [Nomia]. **Nomiinae**.

Macropis Panzer, 1809:no. 16. Type species: *Megilla labiata* Fabricius, 1805, monobasic. *Macropis* has been attributed to Klug (in Panzer, 1809) but as pointed out in Commission Opinion 1383 (1986), Panzer provided the description. **Melittinae**.

Macroterea Smith, 1853:130. Type species: *Macroterea bicolor* Smith, 1853, monobasic. **Panurginae**.

Macroterella Timberlake, 1954:360. Type species: *Perdita mortuaria* Timberlake, 1954, by original designation. [Perdita]. **Panurginae**.

Macroteropsis Ashmead, 1899a:85. Type species: *Perdita latior* Cockerell, 1896, by original designation. **Panurginae**.

Maculonomia Wu, 1982:275. Type species: *Nomia terminata* Smith, by original designation. [Nomia]. **Nomiinae**.

Madagalictus Pauly, 1984b:125. Type species: *Halictus suarezensis* Benoist, 1962, by original designation. **Halictini**.

Madrosoma Ashmead, 1899a:94, lapsus for *Mydrosoma* Smith, 1879. **Dissoglossini**.

Maiella Michener, 1942:282, replacement for *Orbitella* Ma, 1938. Type species: *Xylocopa confusa* Pérez, 1901, autobasic. [Xylocopa]. **Xylocopini**.

Malanthidium Pasteels, 1969a:26. Type species: *Anthidium malaccense* Friese, 1914, by original designation. **Anthidiini**.

Malayapis Baker, 1995a:67. Type species: *Andrena chrysocerhonesus* Baker, 1995, by original designation. [Andrena]. **Andreninae**.

Manthidium Pasteels, 1969a:43. Type species: *Anthidium binghami* Friese, 1901 (first described under the homonymous name *Anthidium fraternum* Bingham, 1897), by original designation. **Anthidiini**.

Manuelia Vachal, 1905b:25. Type species: *Halictus gayi* Spinola, 1851, by designation of Daly, Michener, Moure, and Sakagami, 1987:104. Sandhouse (1943) designated "*Halictus (Corynura) gayi* Spinola" as the type species, but this is meaningless since both *Halictus gayi* and *Corynura gayi* were described by Spinola in the same work. **Manueliini**.

Margandrena Warneke, 1968:91. Type species: *Andrena marginata* Fabricius, 1776, by original designation. [Andrena]. **Andreninae**.

Marghalictus Warneke, 1975b:95. Type species: *Hylaeus marginellus* Schenck, 1853, by original designation. [Halictus]. **Halictini**.

Martinapis Cockerell, 1929f:19, replacement for *Martinella* Cockerell, 1903. Type species: *Melissodes luteicornis* Cockerell, 1896, autobasic. **Eucerini**.

Martinella Cockerell, 1903c:450, not Jousseaume, 1887. Type species: *Melissodes luteicornis* Cockerell, 1896, monobasic. [Melissodes]. See *Martinapis*. **Eucerini**.

Massanthidium Pasteels, 1969a:24. Type species: *Trachusa flavorufula* Pasteels, 1969, by original designation. [Trachusa]. **Anthidiini**.

Mastrucatobombus Krüger, 1917:66. Type species: *Bombus mastrucatus* Gerstaecker, 1869 = *Bombus wurflenii* Radoszkowski, 1859. monobasic. [Bombus]. **Bombini**.

Maximegachile Guiglia and Pasteels, 1961:27. Type species: *Megachile maxillosa* Guérin-Méneville, 1845, by original designation. [Megachile]. **Megachilini**.

Maxschwarzia Pagliano and Scaramozzino, 1990:5, unnecessary replacement for *Meganomia* Cockerell, 1909; see Michener, 1992. Type species: *Nomia binghami* Cockerell, 1909, autobasic. **Meganomiinae**.

Maynenomia Pauly, 1984d:698. Type species: *Nomia maynei* Cockerell, 1937 = *Nomia testacea* Friese, 1914, by original designation. **Nomiinae**.

Mecanthidium Michener, 1942:278. Type species: *Paranthidium sonorum* Michener, 1942, by original designation. [Paranthidium]. **Anthidiini**.

Mediocralictus Pauly, 1984b:143. Type species: *Halictus mediocris* Benoist, 1962, by original designation. [Lasioglossum]. **Halictini**.

Megabombus Dalla Torre, 1880:40. Type species: *Bombus ligusticus* Spinola, 1805 = *Apis argillacea* Scopoli, 1763, monobasic. [Bombus]. Isotypic with *Odontobombus* by synonymy. **Bombini**.

Megaceratina Hirashima, 1971b:251. Type species: *Ceratina bonyssoni* Vachal, 1903 = *Ceratina sculpturata* Smith, 1854, by original designation. **Ceratinini**.

Megachile Latreille, 1802a:434. Type species: *Apis centuncularis* Linnaeus, 1758, by designation of Curtis, 1828:pl. 218. A subsequent designation. *Xylocopa muraria* Fabricius, 1804 = *Apis parietina* Fourcroy, 1785, was by Blanchard, 1840:408. Isotypic with *Anthemois* by synonymy. **Megachilini**.

Megachileoides Radoszkowski, 1874b:132. Type species: *Trachusa serratulae* Panzer, 1804 = *Apis hyssina* Panzer, 1798, by designation of Michener, 1995:375. Isotypic with *Trachusa* Panzer; isotypic with *Diphysis* by synonymy. **Anthidiini**.

Megachilooides Mitchell, 1924:154. Type species: *Megachilooides oenotherae* Mitchell, 1924, by original designation. *Megachilooides* Saussure (1890) is an incorrect subsequent spelling of *Megachileoides* Radoszkowski and does not pre-occupy *Megachilooides* Mitchell. **Megachilini**.

Megachilooides Saussure, 1890:35, incorrect subsequent spelling of *Megachileoides* Radoszkowski, 1874, see Michener, 1995. **Anthidiini**.

Megacilissa Smith, 1853:123. Type species: *Megacilissa superba* Smith, 1853 = *Caupolicana fulvicollis* Spinola, 1851, monobasic. **Caupolicanini**.

Megahoplitis Tkalcú, 1993a:55. Type species: *Osmia tigrina* Morawitz, 1872, by original designation. [Hoplitis]. **Osmiini**.

Megalobombus Schulz, 1906:267, unjustified emendation of *Megabombus* Dalla Torre, 1880. [Bombus]. **Bombini**.

Megalochila Schulz, 1906:263, unjustified emendation of *Megachile* Latreille, 1802. **Megachilini**.

Megalocilissa Schulz, 1906:243, unjustified emendation of *Megacilissa* Smith, 1853. **Caupolicanini**.

Megaloheriades Peters, 1984:366. Type species: *Osmia schultzei* Friese, 1909, by original designation. **Osmiini**.

Megalopta Smith, 1853:83. Type species: *Megalopta idalia* Smith, 1853, designated by Commission Opinion 788 (1966). The earlier type designation of *Megalopta bituberculata* Smith, 1853, by Cockerell, 1900a:374, is invalidated. **Augochlorini**.

Megaloptella Schrottky, 1906a:312. Type species: *Halictus ochrias* Vachal, 1904, by original designation. [Megalopta]. **Augochlorini**.

Megaloptidia Cockerell, 1900a:373, 374. Type species: *Megalopta contradicta* Cockerell, 1900, by original designation. [Megalopta]. **Augochlorini**.

Megaloptilla Moure and Hurd, 1987:241. Type species: *Halictus callopis* Vachal, 1911, by original designation. [Megommation]. **Augochlorini**.

Megaloptina Eickwort, 1969:441. Type species: *Augochlora ogilviei* Cockerell, 1930, by original designation. [Megommation]. **Augochlorini**.

Megaloptodes Moure, 1959:183. Type species: *Megalopta bituberculata* Smith, 1853, by original designation. **Nomiinae**.

Megalosmia Schmiedeknecht, 1885:23. Type species: *Osmia grandis* Morawitz, 1873, by designation of Sandhouse, 1943:568. **Osmiini**.

Megamegilla Brooks, 1988:505. Type species: *Apis acraensis* Fabricius, 1793, by original designation. [Amegilla]. **Anthophorini**.

Megandrena Cockerell, 1927a:42. Type species: *Andrena enceliae* Cockerell, 1927, by original designation. [Andrena]. **Andreninae**.

Meganomia Cockerell, 1909a:402. Type species: *Nomia binghami* Cockerell, 1909, monobasic. [Nomia]. **Meganomiinae**.

Meganomioides Pesenko, 1983:183. Type species: *Nomiooides karachensis* Cockerell, 1911, by original designation. [Ceylalictus]. **Nomoidinae**.

Meganthidium Popov, 1950a:315. Type species: *Anthidium christophi* Morawitz, 1884 = *Anthidium superbum* Radoszkowski, 1876, by original designation. **Anthidiini**.

Megapis Ashmead, 1904a:120. Type species: *Apis dorsata* Fabricius, 1793, by original designation. **Apini**.

Megascirtetica Moure and Michener, 1955b:264. Type species: *Macrocerata mephistophelica* Schrottky, 1902, by original designation. **Eucerini**.

Megaxylocopa Hurd and Moure, 1963:151. Type species: *Apis frontalis* Olivier, 1789, by original designation. [Xylocopa]. **Xylocopini**.

Megella Pasteels, 1965:167. Type species: *Megachile malimbana* Strand, 1911, by original designation. [Megachile]. **Megachilini**.

Meghylaeus Cockerell, 1929b:314. Type species: *Palaeorhiza gigantea* Cockerell, 1926 = *Prosopis fijiensis* Cockerell, 1909, by original designation. [Hylaeus]. **Hylaeinae**.

Megilla Fabricius, 1804:328. Type species: *Apis pilipes* Fabricius, 1775 = *Apis plumipes* Pallas, 1772, designated by Commission Opinion 1383 (1986). *Megilla labiata* Fabricius, 1804, was designated by Westwood, 1840a:158, and *Apis acervorum* Linnaeus, 1758, was designated by Richards, 1935:172, as the type species of *Megilla*. These designations would have made *Megilla* the correct name for *Macropis* or a junior synonym of *Bombus*, respectively, although *Apis acervorum* was interpreted as an *Anthophora* at the time of Richard's work. Isotypic with *Podalirius* and *Anthophora*. **Anthophorini**.

Megomalopsis Michener and Moure, 1957:430. Type species: *Exomalopsis diversipes* Cockerell, 1949 = *Exomalopsis mellipes* Cresson, 1878, by original designation. **Exomalopsini**.

Megommation Moure, 1943b:479. Type species: *Halictus insignis* Smith, 1853, by original designation. **Augochlorini**.

Mehelya Popov, 1939:167, not Csiki, 1903, replacement for *Barbata* Méhely, 1935. Type species: *Prosopis friesei* Alfken, 1904, by original designation. [Prosopis]. See *Mehelyana*. **Hylaeinae**.

Mehelyana Sandhouse, 1943:569, replacement for *Barbata* Méhely, 1935, and *Mehelya* Popov, 1939. Type species: *Prosopis friesei* Alfken, 1904, autobasic. **Hylaeinae**.

Melaliphanthus Ruz and Toro, 1983:271. Type species: *Liphanthus atratus* Ruz and Toro, 1983, by original designation. [Liphanthus]. **Panurginae**.

Melanapis Cameron, 1902a:420. Type species: *Melanapis violaceipennis* Cameron, 1902 = *Andrena fuscosa* Erichson, 1835, monobasic. **Andreninae**.

Melandrena Pérez, 1890:170. Type species: *Apis thoracica* Fabricius, 1775, by present designation. *Andrena morio* Brullé, 1832, designated by Hedicke, 1933:216, was not among the species originally included by Pérez. [Andrena]. **Andreninae**.

Melanempis Saussure, 1890:84. Type species: *Phileremus ater* Saussure, 1890, monobasic. [Phileremus]. **Ammobatini**.

Melaneutricharea Tkalcú, 1993b:803. Type species: *Megachile holmanni* Tkalcú, 1983, by original designation. [Megachile]. **Megachilini**.

Melanoanthidium Tkalcú, 1967:91. Type species: *Anthidium montanum* Morawitz, 1864, by original designation. [Anthidium]. **Anthidiini**.

Melanobombus Dalla Torre, 1880:40. Type species: *Apis lapidaria* Linnaeus, 1758, by designation of Sandhouse, 1943:569. [Bombus]. Isotypic with *Lapidariobombus*. **Bombini**.

Melanocentris Friese, 1900:244, 246. Type species: *Centris atra* Friese, 1899, by designation of Sandhouse, 1943:569. [Centris]. **Centridini**.

Melanocoelioxys Mitchell, 1973:78. Type species: *Coelioxys tolteca* Cresson, 1878, by original designation. [Coelioxys]. **Megachilini**.

Melanomada Cockerell, 1903d:587. Type species: *Nomada grindeliae* Cockerell, 1903, by original designation. [Nomada]. **Brachynomadini**.

Melanomia Pauly, 1990:149; also described as new by Pauly, 1991:310. Type species: *Nomia melanosoma* Benoist, 1963, by original designation. **Nomiinae**.

Melanosarus Mitchell, 1934:303, 307. Type species: *Megachile xylocopoides* Smith, 1853, by original designation. [Megachile]. **Megachilini**.

Melanosmia Schmiedeknecht, 1885:19[885]. Type species: *Osmia fuciformis* Latreille, 1811 = *Apis xanthomelana* Kirby, 1802, by designation of Sandhouse, 1939:33. [Osmia]. **Osmiini**.

Melanostelis Ashmead, 1898:283. Type species: *Melanostelis betheli* Ashmead, 1898 = *Stelis rubi* Cockerell, 1898, by original designation. **Anthidiini**.

Melanthidium Cockerell, 1947:106. Type species: *Melanthidium carri* Cockerell, 1947, by original designation. **Anthidiini**.

Melanthidium Pasteels, 1969a:90, not Cockerell, 1947. Type species: *Anthidium concolor* Friese, 1913, by original designation. See *Nigranthidium* and *Warnckeia*. **Anthidiini**.

Melea Sandhouse, 1943:569, replacement for *Anthemoessa* Robertson, 1905. Type species: *Anthophora abrupta* Say, 1837, autobasic. **Anthophorini**.

Melecta Latreille, 1802a:427. Type species: *Apis punctata* Fabricius, 1775 = *Apis albifrons* Forster, 1771, by designation of Latreille, 1810:439. Isotypic with *Symmorphia*. **Melectini**.

Melectoides Taschenberg, 1883:75. Type species: *Melectoides senex* Taschenberg, 1883, by original designation. **Isepeolini**.

Melectomimus Linsley, 1939a:448. Type species: *Melecta edwardsii* Cresson, 1878, by original designation. [Melecta]. **Melectini**.

Melectomorpha Linsley, 1939a:451. Type species: *Melecta californica* Cresson, 1878, by original designation. [Melecta]. **Melectini**.

Melikerria Moure, 1992:34. Type species: *Apis compressipes* Fabricius, 1804, by original designation. [Melipona]. **Meliponini**.

Meliphila Schrottky, 1902b:310. Type species: *Meliphila ipomoeae* Schrottky, 1902 = *Melitoma euglossoides* Lepeletier and Serville, 1828, by original designation. Isotypic with *Melitoma* by synonymy. **Emphorini**.

Meliphilopsis Roig-Alsina, 1994:183. Type species: *Meliphilopsis melanandra* Roig-Alsina, 1994, by original designation. **Emphorini**.

Melipolebia Moure, 1961:229. Type species: *Trigona beccarii* Gribodo, 1879, by original designation. **Meliponini**.

Melipona Illiger, 1806:157. Type species: *Apis favosa* Fabricius, 1798, by designation of Latreille, 1810:439. *Melipona fulva* Lepeletier, 1841, designated by Blanchard, 1849:pl. 129 (1845), was not originally included. **Meliponini**.

Meliponorytes Tosi, 1896:352. Type species: *Meliponorytes succini* Tosi, 1896, by designation of Sandhouse, 1943:570. **Fossil. Meliponini**.

Meliponula Cockerell, 1934b:47. Type species: *Melipona bocandei* Spinola, 1851, by original designation. [Trigona]. **Meliponini.**

Melissa Smith, 1854:279. Type species: *Mesocheira azurea* Lepeletier and Serville, 1825, by designation of Sandhouse, 1943:570. Isotypic with *Mesoplia*. **Ericocidini.**

Melissina Cockerell, 1911e:670. Type species: *Melissina viator* Cockerell, 1911, monobasic. **Eucerini.**

Melissoda Lepeletier, 1841:508. Type species: *Melissoda latreillii* Lepeletier, 1841 = *Acanthopus goryi* Romand, 1840, monobasic. Isotypic with *Ischnocera*; isotypic with *Ctenioschelus* by synonymy. **Ericocidini.**

Melissode Latreille, 1825:464, nomen nudum. French vernacular. **Eucerini?**

Melissodes Berthold, 1827:468, nomen nudum, Latinization of *Melissode* Latreille. There is no certainty that these names refer to *Melissodes* Latreille, 1829. They are listed here to avoid possible confusion. **Eucerini?**

Melissodes Latreille, 1829:354, no included species. Romand, 1841:6, included *Melissodes fonscolombei* Romand, 1841; this specific name was suppressed by Commission Opinion 750 (1965). Type species: *Melissodes leprieuri* Blanchard, 1846, first valid included species and designated as type species by Opinion 750. Taschenberg, 1883:78, subsequently designated *Macrocera rustica* Say, 1837, as the type species. **Eucerini.**

Melissoptila Holmberg, 1884:119. Type species: *Melissoptila tandilensis* Holmberg, 1884, monobasic. Isotypic with *Thyreothremma* and *Thyreotremata* by synonymy. **Eucerini.**

Melitoma Berthold, 1827:468, nomen nudum, Latinization of *Melitome* Latreille. **Emphorini?**

Melitoma Lepeletier and Serville, 1828:529. Type species: *Melitoma euglossoides* Lepeletier and Serville, 1828, monobasic. Isotypic with *Meliphila* by synonymy. **Emphorini.**

Melitome Latreille, 1825:464, nomen nudum, French vernacular. **Emphorini?**

Melitribus Rayment, 1930a:217. Type species: *Melitribus greavesi* Rayment, 1930, by original designation. Rayment, 1930b:61, subsequently designated *Gastropsis victoriae* Cockerell, 1906, as the type species. **Stenotritidae.**

Melitta Kirby, 1802:117. Type species: *Melitta tricincta* Kirby, 1802, by designation of Richards, 1935:172. Isotypic with *Kirbya*. **Melittinae.**

Melittidia Dalla Torre, 1896:99, lapsus for *Mellitidia* Guérin-Méneville, 1830. **Nomiinae.**

Melittoides Friese, 1921a:177. Type species: *Andrena melittoides* Friese, 1899, by absolute tautonymy. **Andreninae.**

Melittosmithia Schulz, 1906:244, replacement for *Smithia* Vachal, 1897. Type species: *Scrapter carinata* Smith, 1862, by designation of Cockerell, 1910b:358. **Eryglossinae.**

Melitoxena Morawitz, 1873b:154. Type species: *Nomada truncata* Nylander, 1848, monobasic. **Blastini.**

Melitturga Latreille, 1809:176. Type species: *Eucera clavicornis* Latreille, 1806, monobasic. **Panurginae.**

Meliturga Lepeletier and Serville, 1828:799, unjustified emendation of *Melitturga* Latreille, 1809. **Panurginae.**

Meliturgopsis Ashmead, 1899a:62, no included species; Cockerell, 1909c (May 13):414, included a species. Type species: *Emphoropsis murihirta murina* Cockerell, 1909, first included species, designated by Sandhouse, 1943:572. The inclusion and designation of *Anthophora aurulento-caudata* Dours, 1869, by Vachal, 1909b:9, was published in July and is junior to Cockerell (1909c). **Anthophorini.**

Meliturgula Friese, 1903b:33. Type species: *Meliturgula braunsi* Friese, 1903, monobasic. **Panurginae.**

Meliwillea Roubik, Segura, and Camargo, 1997:102. Type species: *Meliwillea bivea* Roubik, Segura, and Camargo, 1997, by original designation. **Meliponini.**

Mellitidia Guérin-Méneville, 1830:270. Type species: *Andrena australis* Guérin-Méneville, 1830, monobasic. **Nomiinae.**

Melliturga Latreille, 1809:177, lapsus for *Melitturga* Latreille, 1809. **Panurginae.**

Mendacibombus Skorikov, 1914a:125. Type species: *Bombus mendax* Gerstaecker, 1869, by designation of Sandhouse, 1943:572. [Bombus]. **Bombini.**

Mermiglossa Friese, 1912:188. Type species: *Mermiglossa rufa* Friese, 1912, monobasic. **Panurginae.**

Meroglossa Smith, 1853:33. Type species: *Meroglossa canaliculata* Smith, 1853, monobasic. **Hylaeinae.**

Meroglossula Perkins, 1912:99. Type species: *Meroglossa eucalypti* Cockerell, 1910, monobasic. [Meroglossa]. **Hylaeinae.**

Merrophites Warncke, 1979:133. Type species: *Dufourea merceti* Vachal, 1907, by original designation. [Rophites]. **Rophitinae.**

Mesanthidiellum Pasteels, 1969a:83. Type species: *Mesanthidiellum amoenum* Pasteels, 1969, by original designation. **Anthidiini.**

Mesanthidium Popov, 1950a:316. Type species: *Anthidium pentagonum* Gussakovskij, 1930, by original designation. **Anthidiini.**

Mesocheira Lepeletier and Serville, 1825:106. Type species: *Melecta bicolor* Fabricius, 1804, by designation of Taschenberg, 1883:72. **Ericocidini.**

Mesochira Agassiz, 1846:20; Schulz, 1906:257, unjustified emendation of *Mesocheira* Lepeletier and Serville, 1825. **Ericocidini.**

Mesonychium Lepeletier and Serville, 1825:107. Type species: *Mesonychium coeruleescens* Lepeletier and Serville, 1825, monobasic. **Ericocidini.**

Mesoplia Lepeletier, 1841:457. Type species: *Mesocheira azurea* Lepeletier and Serville, 1825, monobasic. Isotypic with *Melissa*. **Ericocidini.**

Mesotrichia Westwood, 1838:112. Type species: *Mesotrichia torrida* Westwood, 1838, monobasic. **Xylocopini.**

Mesoxaea Hurd and Linsley, 1976:41. Type species: *Oxaea nigerrima* Friese, 1912, by original designation. **Oxaeinae.**

Metadioxys Popov, 1947:88. Type species: *Dioxys formosa* Morawitz, 1875, by original designation. **Dioxyini.**

Metallinella Tkalcú, 1966:200. Type species: *Osmia atrocaerulea* Schilling, 1849 = *Eucera brevicornis* Fabricius, 1798, by original designation. **Osmiini**.

Metanegachile Tkalcú, 1967:102. Type species: *Anthophora albisecta* Klug, 1817, by original designation. [Megachile]. **Megachilini**.

Metapsaenylia Timberlake, 1969:89. Type species: *Calliopsis abdominalis* Cresson, 1878, by original designation. **Panurginae**.

Metapsithyrus Popov, 1931a:135. Type species: *Apis campestris* Panzer, 1801, by original designation. [Psithyrus]. **Bombini**.

Metasamba Michener, 1981:69. Type species: *Haplomalitta fasciata* Michener, 1981, by original designation. [Haplomalitta]. **Dasyopodinae**.

Metatrachusa Pasteels, 1969a:22. Type species: *Anthidium pendleburyi* Cockerell, 1927, by original designation. [Trachusa]. **Anthidiini**.

Metylaeus Bridwell, 1919:126, 131. Type species: *Metylaeus cibratus* Bridwell, 1919, by original designation. **Hylaeinae**.

Metziella Michener, 1942:273. Type species: *Prosopis potens* Metz, 1911 = *Prosopis sparsa* Cresson, 1869, by original designation. [Hylaeus]. **Hylaeinae**.

Mexalictus Eickwort, 1978:567. Type species: *Mexalictus micheneri* Eickwort, 1978, by original designation. **Halictini**.

Michanthidium Urban, 1994a:281, replacement for *Gnathanthidium* Urban. Type species: *Gnathanthidium sakagamii* Urban, autobasic. **Anthidiini**.

Michenerapis Hirashima and Liefenck, 1982:5. Type species: *Palaeorhiza bicolor* Hirashima and Liefenck, 1982, by original designation. [Palaeorhiza]. **Hylaeinae**.

Michenerella Krombein, 1950:122. Type species: *Heriades paganensis* Yasumatsu, 1942, by original designation. [Heriades]. **Osmiini**.

Micheneria Kerr, Pisani, and Aily, 1967:139, not Orfila and Rossi, 1956. Type species: *Melipona scutellaris* Latreille, 1811, by original designation. [Melipona]. See *Michmelia*. **Meliponini**.

Michenerula Bohart, 1965:320. Type species: *Michenerula beameri* Bohart, 1965, by original designation. **Rophitinae**.

Michmelia Moure, 1975:621, replacement for *Micheneria* Kerr, Pisani, and Aily. Type species: *Melipona scutellaris* Latreille, 1811, autobasic. [Melipona]. **Meliponini**.

Micralictoides Timberlake, 1939:397. Type species: *Halictoides ruficaudus* Michener, 1937, by original designation. [Dufourea]. **Rophitinae**.

Micramegilla Brooks, 1988:508. Type species: *Anthophora niveata* Friese, 1905, by original designation. [Amegilla]. **Anthophorini**.

Micrandrena Ashmead, 1899a:89. Type species: *Micrandrena pacifica* Ashmead, 1899 = *Andrena melanochroa* Cockerell, 1898, by original designation. **Andreninae**.

Micranthidium Cockerell, 1930b:45. Type species: *Anthidium truncatum* Smith, 1854, by original designation. [Pachyanthidium]. **Anthidiini**.

Micranthophora Cockerell, 1906d:66. Type species: *Anthophora curta* Provancher, 1895, by original designation. **Anthophorini**.

Micrapis Ashmead, 1904a:122. Type species: *Apis florea* Fabricius, 1787, by original designation. **Apini**.

Micraungochlora Schrottky, 1909b:483, no included species; Schrottky, 1909a:138, included one species. Type species: *Micraungochlora sphaerocephala* Schrottky, 1909, first included species. Isotypic with *Temnosomula* by synonymy. **Augochlorini**.

Micrieriades Mavromoustakis, 1958:444. Type species: *Heriades parnesica* Mavromoustakis, 1958, by original designation. [Heriades]. **Osmiini**.

Microcolletes Michener, 1965a:55. Type species: *Paracolletes halictiformis* Cockerell, 1916 (not *Euryglossa halictiformis* Smith, 1879, homonym in *Leioproctus*) = *Leioproctus halictomimus* Michener, 1965 = *Paracolletes minutus* Cockerell, 1916, by original designation. [Leioproctus]. **Colletinae**.

Microdontura Cockerell, 1929b:322. Type species: *Microdontura mellea* Cockerell, 1929, monobasic. **Euryglossinae**.

Microhalictus Warncke, 1975b:85. Type species: *Melitta minutissima* Kirby, 1802, by original designation. [Halictus]. **Halictini**.

Microhesma Michener, 1965a:113. Type species: *Brachyhesma incompleta* Michener, 1965, by original designation. [Brachyhesma]. **Euryglossinae**.

Microhoplitis Tkalcú, 1993b:811. Type species: *Osmia hohmanni* Tkalcú, 1993, by original designation. [Osmia]. **Osmiini**.

Micromelelecta Baker, 1906:143. Type species: *Melecta maculata* Cresson, 1879, by original designation. Isotypic with *Zacosmia*. **Melectini**.

Micromumination Moure, 1969:247. Type species: *Micromumination larocai* Moure, 1969, by original designation. **Augochlorini**.

Micronomada Cockerell and Atkins, 1902:44. Type species: *Nomada modesta* Cresson, 1863, by original designation. [Nomada]. **Nomadini**.

Micronomadopsis Rozen, 1958:107. Type species: *Nomadopsis fracta* Rozen, 1958, by original designation. [Nomadopsis]. **Panurginae**.

Micronychapis Moure and Michener, 1955b:286. Type species: *Tetralonia duckei* Friese, 1908, by original designation. **Eucerini**.

Micropasites Linsley, 1942:130. Type species: *Neopasites cressoni* Crawford, 1916, by original designation. [Gnathopasites]. **Biastini**.

Micropasites Warncke, 1983:283, not Linsley, 1942. Type species: *Ammobates minutissimus* Mavromoustakis, 1959, renamed *tunensis* Warncke, 1983, because of homonymy in *Pasites*. [Pasites]. See *Ebmeriana*. **Ammobatini**.

Microrophites Warncke, 1979:133. Type species: *Rophites quadridentatus* Warncke, 1979, by original designation. [Rophites]. **Rophitinae**.

Microsphecodes Eickwort and Stage, 1972:501. Type species: *Sphecodes kathleenae* Eickwort, 1972, by original designation. [Sphecodes]. **Halictini**.

Microstelis Robertson, 1903a:170, 175. Type species: *Stelis lateralis* Cresson, 1864, by original designation. **Anthidiini**.

Microthurge Michener, 1983:181. Type species: *Lithurgus pharcidontus* Moure, 1948, by original designation. **Lithurgini**.

Mielkeanthidium Urban, 1996:121. Type species: *Mielkeanthidium nigripes* Urban, 1996, by original designation. **Anthidiini**.

Mimandrena Lanham, 1949:217. Type species: *Andrena imitatrix* Cresson, 1872, by original designation. [Andrena]. **Andreninae**.

Mimoxylocopa Hurd and Moure, 1963:203. Type species: *Xylocopa rufipes* Smith, 1852, by original designation. [Xylocopa]. **Xylocopini**.

Mimulapis Bridwell, 1919:162. Type species: *Mimulapis versatilis* Bridwell, 1919, by original designation. **Rophitinae**.

Minutodufourea Ebmer, 1984:361. Type species: *Dufourea minutissima* Ebmer, 1976, by original designation. [Dufourea]. **Rophitinae**.

Mitchellapis Michener, 1965a:211. Type species: *Megachile fabricator* Smith, 1868, by original designation. [Megachile]. **Megachilini**.

Mitsukuriapis Hirashima, LaBerge, and Ikudome, in Ikudome, 1994:6, replacement for *Mitsukuriella* Hirashima and LaBerge. Type species: *Nomia japonica* Smith, 1873, autobasic. [Andrena]. **Andreninae**.

Mitsukuriella Hirashima and LaBerge, 1965, in Hirashima, 1965a:472, not Heding and Panning, 1954. Type species: *Nomia japonica* Smith, 1873, by original designation. [Andrena]. See *Mitsukuriapis*. **Andreninae**.

Monia Westwood, 1875:221, not Gray, 1850. Type species: *Monia grisea* Westwood, 1875, monobasic. See *Monidia*. **Colletinae**.

Monidia Cockerell, 1905c:9, replacement for *Monia* Westwood, 1875. Type species: *Monia grisea* Westwood, 1875, autobasic. **Colletinae**.

Monilapis Cockerell, 1931f:529. Type species: *Hylaeus tomentosus* Eversmann, 1852, by original designation. [Halictus]. **Halictini**.

Monilosmia Robertson, 1903a:166, 171. Type species: *Osmia canadensis* Cresson, 1864 = *Osmia simillima* Smith, 1853, by original designation. **Osmiini**.

Monoeca Lepeletier and Serville, 1828:528. Type species: *Monoeca brasiliensis* Lepeletier and Serville, 1828, monobasic. **Tapinotaspidini**.

Monoepeolus Bischff, 1930:3. Type species: *Apis variegata* Linnaeus, by original designation. Named in synonymy of *Epeolus* s. str. as contrast to *Diepeolus*. [Epeolus]. Isotypic with *Epeolus*. **Epeolini**.

Monosmia Tkalc, 1974a:337. Type species: *Osmia apicata* Smith, by original designation. [Osmia]. **Osmiini**.

Monoxylocopa Hurd and Moure, 1963:127. Type species: *Xylocopa abbreviata* Hurd and Moure, 1963, by original designation. [Xylocopa]. **Xylocopini**.

Monumetha Cresson, 1864:387. Type species: *Chelostoma albifrons* Kirby, 1837, by designation of Titus, 1904a:26. **Osmiini**.

Morawitzella Popov, 1957:916. Type species: *Epimethea nana* Morawitz, 1880, by original designation. **Rophitinae**.

Morawitzia Friese, 1902:185. Type species: *Morawitzia panurgoides* Friese, 1902, by designation of Sandhouse, 1943:574. Sandhouse (1943) considered this genus monobasic, but two names (one called a variety) were included by Friese (1902). **Rophitinae**.

Morgania Smith, 1854:253. Type species: *Pasites dichroa* Smith, 1854, monobasic. **Ammobatini**.

Morphanthidium Pasteels, 1969b:423. Invalid because no type species designated; three included species. Synonym of *Ardenthidium*, to judge by two of the included species, and was presumably intended by Pasteels to be the same as *Ardenthidium*. [Anthidium]. **Anthidiini**.

Morphella Pasteels, 1965:537. Type species: *Megachile biseta* Vachal, 1903, by original designation. [Chalicodoma]. **Megachilini**.

Moureana Mitchell, 1980:56. Type species: *Megachile anthidioides* Radoszkowski, 1874, by original designation. [Pseudocentron]. **Megachilini**.

Moureanthidium Urban, 1995a:37. Type species: *Dianthidium subarenarium* Schwarz, 1933, by original designation. **Anthidiini**.

Mourecotelles Toro and Cabezas, 1977:50. Type species: *Mourecotelles mixta* Toro and Cabezas, 1977, by original designation. **Colletinae**.

Mourella Schwarz, 1946, in Moure, 1946a:442. Type species: *Melipona caerulea* Friese, 1900, by original designation. **Meliponini**.

Mucidobombus Krüger, 1920:350. Type species: *Bombus mucidus* Gerstaecker, 1869, monobasic. Krüger gave no subgeneric characters, but according to the Code, 3rd ed., Art. 12(b)(5), the name is nonetheless valid. Isotypic with *Mucidobombus* Skorikov. **Bombini**.

Mucidobombus Skorikov, 1922b:149. Type species: *Bombus mucidus* Gerstaecker, 1869, by designation of Sandhouse, 1943:574. Homonym and junior synonym of and isotypic with *Mucidobombus* Krüger, 1920. **Bombini**.

Mycterochla Eickwort, 1969:423. Type species: *Halictus repandirostris* Vachal, 1911, by original designation. [Augochlora]. **Augochlorini**.

Mydrosoma Smith, 1879:5. Type species: *Mydrosoma metallicum* Smith, 1879 = *Apista opalina* Smith, 1861, monobasic. **Dissoglossini**.

Mydrosomella Michener, 1986b:194. Type species: *Diphaglossa (?) gaullei* Vachal, 1904, by original designation. **Dissoglossini**.

Mystacanthophora Brooks, 1988:466. Type species: *Anthophora montana* Cresson, 1869, by original designation. [Anthophora]. **Anthophorini**.

Mystacosmia Snelling, 1967:104. Type species: *Osmia nemoris* Sandhouse, 1924, by original designation. [Osmia]. **Osmiini**.

Nananthidium Moure, 1947a:26. Type species: *Nananthidium bettyae* Moure, 1947, by original designation. **Anthidiini**.

Nannotrigona Cockerell, 1922e:9. Type species: *Melipona testaceicornis* Lepetier, 1836, by original designation. **Meliponini**.

Nanocolletes Warncke, 1978:341. Type species: *Colletes nanus* Friese, 1898, by original designation. [Colletes]. **Colletinae**.

Nanoxylocopta Hurd and Moure, 1963:99. Type species: *Xylocopta ciliata* Burmeister, 1876, by original designation. [Xylocopta]. **Xylocopini**.

Nasutapis Michener, 1970:208. Type species: *Nasutapis straussorum* Michener, 1970, by original designation. **Allodapini**.

Navicularia Méhelý, 1935:34, 140. Invalid because no type species was designated. [Prosopis]. **Hylaeinae**.

Navicularia Popov, 1939:168. Type species: *Mellinus variegatus* Fabricius, 1798, by original designation. [Prosopis]. **Hylaeinae**.

Neagapostemon Cure, 1989:295. Type species: *Pseudagapostemon cyanomelas* Cure, 1989, by original designation. Cure (1989) attributes the specific name *cyanomelas* to Moure, but earlier usages were *nomina nuda*; Cure was the first to describe the species. [Pseudagapostemon]. **Halictini**.

Nealictus Pesenko, 1984:346. Type species: *Halictus parallelus* Say, 1837, by original designation. [Halictus]. **Halictini**.

Neanthidium Pasteels, 1969a:93. Type species: *Anthidium octodentatum* Pérez, 1895, by original designation. **Anthidiini**.

Nectarodiaeta Holmberg, 1887b:225, nomen nudum. **Eucerini**.

Nectarodiaeta Holmberg, 1903:420. Type species: *Nectarodiaeta oliveirae* Holmberg, 1903, monobasic. **Eucerini**.

Neffapis Ruz, 1995, in Rozen and Ruz, 1995:3. Type species: *Neffapis longilingua* Ruz, 1995, by original designation. **Panurginae**.

Neglectella Pasteels, 1965:431. Type species: *Megachile armatipes* Friese, 1909, by original designation. [Chalicodoma]. **Megachilini**.

Nemandrena LaBerge, 1971a:48. Type species: *Andrena torulosa* LaBerge, 1971, by original designation. [Andrena]. **Andreninae**.

Neoashmeadiella Gupta, 1990:56. Type species: *Ashmeadiella indica* Gupta, 1990, by original designation. [Ashmeadiella]. **Megachilini**.

Neoceratina Perkins, 1912:117. Type species: *Neoceratina australensis* Perkins, 1912, monobasic. **Ceratinini**.

Neochalicodoma Pasteels, 1970:231. Type species: *Chalicodoma pseudolaminata* Pasteels, 1965, by original designation. [Chalicodoma]. **Megachilini**.

Neochelynia Schrottky, 1920:187. Type species: *Neochelynia paulista* Schrottky, 1920, monobasic. **Megachilini**.

Neocoelioxys Mitchell, 1973:64. Type species: *Coelioxys assumptionis* Schrottky, 1911, by original designation. [Coelioxys]. **Megachilini**.

Neocorynura Schrottky, 1910:540, replacement for *Cacosoma* Smith, 1879. Type species: *Cacosoma discolor* Smith, autobasic. **Augochlorini**.

Neocorynuroides Eickwort, 1969:404. Type species: *Halictus rhytis* Vachal, 1904, by original designation. [Neocorynura]. **Augochlorini**.

Neocressoniella Gupta, 1993:172. Type species: *Megachile carbonaria* Smith, 1853, by original designation. [Cressoniella]. **Megachilini**.

Neoeutricharaea Rebmann, 1967:36. Type species: *Apis rotundata* Fabricius, 1787, by original designation. [Megachile]. **Megachilini**.

Neofidelia Moure and Michener, 1955a:202. Type species: *Neofidelia profuga* Moure and Michener, 1955, by original designation. **Fideliini**.

Neohalictoides Viereck, 1904b:261. Type species: *Panurgus maurus* Cresson, 1878, by original designation. **Rophitinae**.

Neolarra Ashmead, 1890:8. Type species: *Neolarra pruinosa* Ashmead, 1890, monobasic. **Neolarrini**.

Neoliphanthus Ruz and Toro, 1983:274. Type species: *Liphanthus bicellularis* Ruz and Toro, 1983, by original designation. [Liphanthus]. **Panurginae**.

Neomegachile Mitchell, 1934:302, 306. Type species: *Megachile chichimeca* Cresson, 1878, by original designation. [Megachile]. **Megachilini**.

Neopanurgus Schwammberger, 1971:2. Type species: *Neopanurgus richteri* Schwammberger, 1971, by original designation. **Panurginae**.

Neopasiphae Perkins, 1912:114. Type species: *Neopasiphae mirabilis* Perkins, 1912, monobasic. **Colletinae**.

Neopasites Ashmead, 1898:284. Type species: *Phileremus fulviventris* Cresson, 1878, by original designation. Isotypic with *Gnathopasites*. **Biastini**.

Neoperdita Ashmead, 1899a:85. Type species: *Perdita zebra* Cresson, 1878, by original designation. **Panurginae**.

Neoscirtetica Schrottky, 1913:256, replacement for *Scirtetica* Holmberg, 1903. Type species: *Scirtetica antarctica* Holmberg, 1903, autobasic. Isotypic with *Alloscirtetica* and *Holmbergiapis*. **Eucerini**.

Neosmia Tkalcú, 1974a:333. Type species: *Osmia gracilicornis* Pérez, by original designation. [Osmia]. **Osmiini**.

Neotrypetes Robertson, 1918a:91. Type species: *Trypetes productus* Robertson, 1905 = *Megachile variolosa* Cresson, 1872, by original designation. **Osmiini**.

Neoxylocopa Michener, 1954:157. Type species: *Apis brasiliatorum* Linnaeus, 1767, by original designation. [Xylocopa]. **Xylocopini**.

Nesylaeus Heider, 1935:2245, unjustified emendation of *Nesylaeus* Bridwell, 1919. **Hylaeinae**.

Nesocolletes Michener, 1965a:52. Type species: *Lamprocolletes fulvescens* Smith, 1876, by original designation. [Leioproctus]. **Colletinae**.

Nesoeupetersia Blüthgen, 1936:182. Type species: *Sphecodes scotti* Cockerell, 1912, by original designation. [Eupetersia]. **Halictini**.

Nesohalictus Crawford, 1910:120. Type species: *Halictus robbii* Crawford, 1910 = *Nomia halictoides* Smith, 1858, by original designation. [Halictus]. **Halictini**.

Nesohylaeus Ikudome, 1989:125. Type species: *Hylaeus niger* Bridwell, 1919, by original designation. [Hylaeus]. **Hylaeinae**.

Nesomelecta Michener, 1948b:15. Type species: *Melecta haitensis* Michener, 1948, by original designation. [Melecta]. **Melectini**.

Nesomonia Michener, Brooks, and Pauly, 1990:135. Type species: *Nomia flaviventris* Benoist, 1963, by original designation. [Uromonia]. **Meganomiinae**.

Nesoprosopis Perkins, 1899:75. Type species: *Prosopis facilis* Smith, 1879, by designation of Popov, 1939:168. **Hylaeinae**.

Nesothrincostoma Blüthgen, 1933:364. Type species: *Thrincostoma serricorne* Blüthgen, 1933, monobasic. **Halictini**.

Nesylaeus Bridwell, 1919:147. Type species: *Hylaeus nesoprosopoides* Bridwell, 1919, by original designation. [Hylaeus]. **Hylaeinae**.

Nevadensibombus Skorikov, 1922b:149. Type species: *Bombus nevadensis* Cresson, 1874, by designation of Frison, 1927:64. **Bombini**.

Nigranthidium Pasteels, 1984:57, replacement for *Melanthidium* Pasteels, 1969. Type species: *Anthidium concolor* Friese, 1913, by original designation and autobasic. **Anthidiini**.

Nigrocoelioxys Gupta, 1993:235. Type species: *Coelioxys fuscipennis* Smith, 1854, by original designation. [Coelioxys]. **Megachilini**.

Niltonia Moure, 1964c:52. Type species: *Niltonia virgili* Moure, 1964, by original designation. **Colletinae**.

Nitocris Rafinesque, 1815:123, unjustified replacement for *Nomia* Latreille, 1804. Type species: *Andrena curvipes* Fabricius, 1781, autobasic. **Nomiinae**.

Nivanthidium Pasteels, 1969a:106. Type species: *Anthidium niveocinctum* Gerstaecker, 1857, by original designation. [Anthidium]. **Anthidiini**.

Nobandrena Warncke, 1968:45. Type species: *Andrena nobilis* Morawitz, 1874, by original designation. [Andrena]. **Andreninae**.

Nobilibombus Skorikov, 1933a:62. Invalid because no type species was designated [Code, 3rd ed., Art. 13(b)]. Bischoff, 1936:12, and Milliron, 1961:54, designated type species but placed *Nobilibombus* as a junior synonym of other names, and thus did not validate it (see Williams, 1991). **Bombini**.

Nobilibombus Richards, 1968:216, 222. Type species: *Bombus nobilis* Friese, 1904, by original designation. [Bombus]. **Bombini**.

Nodocolletes Rayment, 1931:164. Type species: *Nodocolletes dentatus* Rayment, 1931 = *Andrena chalybeata* Erichson, 1851, by original designation. Isotypic with *Lamprocolletes* by synonymy. **Colletinae**.

Nodula Ma, 1938:290. Type species: *Apis amethystina* Fabricius, 1793, by original designation. [Xylocopa]. **Xylocopini**.

Nogueirapis Moure, 1953b:247. Type species: *Trigona butteli* Friese, 1900, by original designation. [Partamona]. **Meliponini**.

Nomada Scopoli, 1770:44. Type species: *Apis ruficornis* Linnaeus, 1758, by designation of Curtis, 1832:pl. 419. *Apis fabriciana* Linnaeus, 1767, designated by Latreille, 1810:439, was not originally included. *Nomada succincta* Panzer, 1798, was designated as the type species by Blanchard, 1849:pl. 128 (1847) but was not originally included. **Nomadini**.

Nomadita Mocsáry, 1894:37. Type species: *Nomadita montana* Mocsáry, 1894, monobasic. **Nomadini**.

Nomadopsis Ashmead, 1898:285. Type species: *Perdita zonalis* Cresson, 1879, lapsus for *Calliopsis zonalis* Cresson, 1879, by original designation. Isotypic with *Claremontiella* by synonymy. **Panurginae**.

Nomadosoma Rohwer, 1911:24. Type species: *Pasites pilipes* Cresson, 1865, by original designation. **Nomadini**.

Nomadula Cockerell, 1903d:611. Type species: *Nomada americana* Kirby of Robertson, 1903d = *Nomada articulata* Smith, 1854, by original designation. See Code, ed. 3, Art. 70(c). [Nomada]. **Nomadini**.

Nomia Latreille, 1804:182. Type species: *Andrena curvipes* Fabricius, 1781, monobasic. *Nomia diversipes* "Fabr." actually Latreille, 1806, designated by Blanchard, 1849:pl. 125 (1847), was not originally included. **Nomiinae**.

Nomiapis Cockerell, 1919a:208. Type species: *Nomia diversipes* Latreille, 1806, by original designation. [Nomia]. **Nomiinae**.

Nomiocolletes Brèthes, 1909c:455. Type species: *Nomia joergenseni* Friese, 1908, by original designation. **Colletinae**.

Nomioides Schenck, 1866:333. Type species: *Apis minutissima* Rossi, 1790, designated by the Commission, Opinion 1319 (1985). Misidentification of the type species as *Andrena pulchella* Jurine, 1807, by Schenck and associated nomenclatural problems are explained by Pesenko and Kerzhner (1981). **Nomioidinae**.

Noonadania Hirashima, 1978:68. Type species: *Palaeorhiza sculpturalis* Hirashima, 1978, by original designation. [Palaeorhiza]. **Hylaeinae**.

Notandrena Pérez, 1890:173. Type species: *Andrena nitidiuscula* Schenck, 1853, designated by Hedicke, 1933:216. [Andrena]. **Andreninae**.

Notanthidium Isensee, 1927:373. Type species: *Anthidium steloides* Spinola, 1851, by original designation. [Dianthidium]. **Anthidiini**.

Noteopsis Ikudome, 1991:791. Type species: *Hylaeus nanseiensis* Ikudome, 1989, by original designation. [Hylaeus]. **Hylaeinae**.

Noteriades Cockerell, 1931b:332. Type species: *Megachile tricarinata* Bingham, 1903, by original designation. [Heriades]. **Osmiini**.

Nothosmia Ashmead, 1899a:75. Type species: *Osmia distincta* Cresson, 1864, by original designation. **Osmiini**.

Nothylaeus Bridwell, 1919:125, 126. Type species: *Prosopis heraldica* Smith, 1853, by original designation. **Hylaeinae**.

Notocolletes Cockerell, 1916b:44. Type species: *Notocolletes heterodoxus* Cockerell, 1916, monobasic. **Colletinae**.

Notolonia Popov, 1962:294. Type species: *Notolonia astragali* Popov, 1962, by original designation. **Eucerini**.

Notomegilla Brooks, 1988:511. Type species: *Anthophora aeruginosa* Smith, 1854, by original designation. [Amegilla]. **Anthophorini**.

Notomelitta Cockerell, 1933b:128. Type species: *Rediviva neliana* Cockerell, 1931, by original designation. **Melittinae**.

Notoxaea Hurd and Linsley, 1976:21. Type species: *Oxaea ferruginea* Friese, 1898, by original designation. **Oxaeinae**.

Notoxylocopa Hurd, 1956:2. Type species: *Xylocopa tabaniformis* Smith, 1854, by original designation. [Xylocopa]. **Xylocopini**.

Nubenomia Pauly, 1980:122. Type species: *Nomia nubecula* Smith, 1875, by original designation. [Nomia]. **Nomiinae**.

Nyctomelitta Cockerell, 1929e:303. Type species: *Bombus tranquebaricus* Fabricius, 1804, by original designation. [Xylocopa]. **Xylocopini**.

Obertobombus Reinig, 1930:107. Type species: *Bombus oberti* Morawitz, 1883, monobasic. [Bombus]. **Bombini**.

Ochreriades Mavromoustakis, 1956:226. Type species: *Eriades fasciatus* Friese, 1899, by original designation. **Osmiini**.

Odontalictus Robertson, 1918a:91. Type species: *Halictus ligatus* Say, 1837, by original designation. **Halictini**.

Odontanthocopa Tkalcu, 1974b:125. Type species: *Osmia bidentata* Morawitz, 1876, by original designation. [Anthocopa]. **Osmiini**.

Odonterythrosmia Tkalcu, 1974b:131. Type species: *Osmia fallax* Pérez, 1895, by original designation. [Anthocopa]. **Osmiini**.

Odontobombus Krüger, 1917:61. Type species: *Apis argillacea* Scopoli, 1763, by designation of Williams, 1994:339. A sectional name, to be treated as a subgenus according to the Code, 3rd ed., Art. 10(e). [Bombus]. Isotypic with *Megabombus* by synonymy. **Bombini**.

Odontochlora Schrottky, 1909a:141. Type species: *Augochlora mulleri* Cockerell, 1900, by original designation. **Augochlorini**.

Odontopasites Linsley, 1942:128. Type species: *Neopasites arizonicus* Linsley, 1942, by original designation. [Neopasites]. **Ammobatoidini**.

Odontostelis Cockerell, 1931d:542. Type species: *Stelis abnormis* Friese, 1925 = *Anthidium bivittatum* Cresson, 1878, by original designation. Isotypic with *Hoplostelis*. **Anthidiini**.

Odontotrigona Moure, 1961:213. Type species: *Trigona haematoptera* Cockerell, 1919, by original designation. **Meliponini**.

Odyneropsis Schrottky, 1902a:432. Type species: *Odyneropsis holosericea* Schrottky, 1902, by original designation. **Epeolini**.

Oediscelis Philippi, 1866:109. Type species: *Oediscelis vernalis* Philippi, 1866, by designation of Cockerell, 1919a:185. Toro and Moldenke (1979) erroneously list the type species as *O. plebeia* Philippi. **Xeromelissinae**.

Oediscelisca Moure, 1946c:243. Type species: *Oediscelis friesei* Ducke, 1907, by original designation. **Xeromelissinae**.

Oestropsis Smith, 1868a:253. not Brauer, 1868. Type species: *Oestropsis pubescens* Smith, 1868, monobasic. See *Gastropis*. **Stenotritidae**.

Oligandrena Lanham, 1949:207. Type species: *Andrena macrocephala* Cockerell, 1916, by original designation. [Andrena]. **Andreninae**.

Oligeucera Sitzdikov and Pesenko, 1988:83. Type species: *Eucera popovi* Sitzdikov, 1988, by original designation. [Eucera]. **Eucerini**.

Oligochlora Engel, 1997:336. Type species: *Oligochlora eickworti* Engel, 1997, by original designation. **Fossil Augochlorini**.

Oligotropus Robertson, 1903a:168. Type species: *Oligotropus campanulae* Robertson, 1903, monobasic. **Megachilini**.

Olmecanthidium Peters, 1972:377. Type species: *Ulanthidium interdisciplinaris* Peters, 1972, by original designation. [Ulanthidium]. **Anthidiini**.

Omachtes Friese, 1909a:436, unjustified emendation of *Omachthes* Gerstaecker, 1869. **Ammobatini**.

Omachthes Gerstaecker, 1869:154. Type species: *Omachthes carnifex* Gerstaecker, 1869, designated by Sandhouse, 1943:580. **Ammobatini**.

Onagrandrena Linsley and MacSwain, 1956:111. Type species: *Andrena oenotherae* Timberlake, 1937, by original designation. [Andrena]. **Andreninae**.

Opacula Pesenko and Sitzdikov, 1988:849. Type species: *Opacula donatica* Sitzdikov, 1988, by original designation. **Eucerini**.

Opandrena Robertson, 1902a:187, 193. Type species: *Andrena cressonii* Robertson, 1871, by original designation. **Andreninae**.

Oragapostemon Cure, 1989:312. Type species: *Halictus divaricatus* Vachal, 1903, by original designation. **Halictini**.

Orandrena Warneke, 1968:36. Type species: *Andrena oralis* Morawitz, 1876, by original designation. [Andrena]. **Andreninae**.

Oranthidium Pasteels, 1969a:95. Type species: *Anthidium oraniense* Brauns, 1905 = *Anthidium folliculosum* Buysson, 1897, by original designation. **Anthidiini**.

Orbitella Ma, 1938:305, not Douville, 1915. Type species: *Xylocopa confusa* Pérez, 1901, by original designation. See *Maiella* and *Euryapis*. [Xylocopa]. **Xylocopini**.

Oreomelissa Hirashima and Tadauchi, 1975:176. Type species: *Andrena mitakensis* Hirashima, 1963, by original designation. [Andrena]. **Andreninae**.

Oreopasites Cockerell, 1906e:442. Type species: *Oreopasites scituli* Cockerell, 1906, monobasic. **Ammobatini**.

Orfilana Moure, 1954b:266. Type species: *Doeringiella variegata* Holmberg, 1886, by original designation. [Doeringiella]. **Epeolini**.

Orientalibombus Richards, 1929:378. Type species: *Bombus orientalis* Smith, 1854, by original designation. [Bombus]. **Bombini**.

Orientalobombus Kruseman, 1952:102, unjustified emendation of *Orientalibombus* Richards, 1929. [Bombus]. **Bombini**.

Orientocoelioxys Gupta, 1992:73. Type species: *Coelioxys quadrifasciatus* Gupta, 1992, by original designation. [Coelioxys]. **Megachilini**.

Orientocressoniella Gupta, 1993:165. Type species: *Megachile relata* Smith, 1879, by original designation. [Cressoniella]. **Megachilini**.

Orientoheriades Gupta, 1987:68. Type species: *Heriades orientalis* Gupta, 1987, by original designation. [Heriades]. **Osmiini**.

Orientosmia Peters, 1978b:332. Type species: *Osmia maxillaris* Morawitz, 1875, by original designation. [Osmia]. **Osmiini**.

Orientotrachusa Gupta, 1993:50. Type species: *Anthidium orientale* Bingham, 1897, by original designation. [Trachusa]. **Anthidiini**.

Orphana Vachal, 1909a:35, 38. Type species: *Orphana inquirenda* Vachal, 1909, monobasic. Isotypic with *Leptoglossa* and *Ptoleglossa* by synonymy. **Andreninae**.

Orthanthidium Mavromoustakis, 1953:837. Type species: *Anthidium formosanum* Friese, 1917, by original designation. [Paraanthidium]. **Anthidiini**.

Osirinus Roig-Alsina, 1989:17. Type species: *Osirinus lemniscatus* Roig-Alsina, 1989, by original designation. Isotypic with *Compsoclepta* by synonymy. **Osirini**.

Osiris Smith, 1854:288. Type species: *Osiris pallidus* Smith, 1854, by designation of Sandhouse, 1943:580. **Osirini**.

Osmia Panzer, 1806:230. Type species: *Apis bicornis* Linnaeus, 1758 = *Apis rufa* Linnaeus, 1758, by designation of Latreille, 1810:439. *Osmia tricornis* Latreille, 1811, designated by Blanchard, 1849:pl. 127 (1846), was not an originally included species. Isotypic with *Amblys* and *Ceratosmia*; isotypic with *Pachyosmia* by synonymy. **Osmiini**.

Othinosmia Michener, 1943:86. Type species: *Thaumatosoma moniliferum* Cockerell, 1932, by original designation. [Anthocopa]. **Osmiini**.

Oxaea Klug, 1807a:261. Type species: *Oxaea flavesens* Klug, monobasic. The names *Oxaea* and *Dasyglossa* appear to have been published at approximately the same time in late 1807. *Dasyglossa* has not been used since, and in 1810 was discussed under the heading of *Oxaea* (Klug, 1810). Even if *Dasyglossa* has priority, it should not be resurrected. Isotypic with *Dasyglossa*. **Oxaeinae**.

Oxyandrena LaBerge, 1977:135. Type species: *Andrena longifovea* LaBerge, 1977, by original designation. [Andrena]. **Andreninae**.

Oxyanthidium Mavromoustakis, 1963a:653. Type species: *Anthidium aculeatum* Klug, 1832, by original designation. [Meganthidium]. **Anthidiini**.

Oxybiastes Mavromoustakis, 1954:260. Type species: *Oxybiastes bischoffi* Mavromoustakis, 1954, by original designation. **Epeolini**.

Oxyhalictus Cockerell and Ireland, 1935, in Cockerell, 1935b:91. Type species: *Halictus acuiferus* Cockerell and Ireland, 1935, monobasic. [Halictus]. **Halictini**.

Oxynedys Moure, 1946d:18, 27, 31, pl. 3, error for *Oxynedys* Schrottky, 1902. **Eriocridini**.

Oxynedys Schrottky, 1902a:491. Type species: *Oxynedys beroni* Schrottky, 1902 = *Mesocheira velutina* Lepetier and Serville, 1825, by original designation. Isotypic with *Hopliphora* by synonymy. **Eriocridini**.

Oxystoglossa Smith, 1853:83. Type species: *Oxystoglossa decorata* Smith, 1853, monobasic. **Augochlorini**.

Oxystoglossella Eickwort, 1969:422. Type species: *Augochlora cordiaefloris* Cockerell, 1907, by original designation. [Augochlora]. **Augochlorini**.

Oxystoglossidia Moure, 1943b:473. Type species: *Oxystoglossidia uraniella* Moure, 1943, by original designation. **Augochlorini**.

Oxytrigona Cockerell, 1917a:124. Type species: *Trigona flaveola mediorufa* Cockerell, 1913, by original designation. [Trigona]. **Meliponini**.

Oxyxylocopa Hurd and Moure, 1963:275. Type species: *Xylocopa varipes* Smith, 1854, by original designation. [Xylocopa]. **Xylocopini**.

Ozbekosmia Zanden, 1994:168. Type species: *Osmia avosetta* Warneke, 1988, by original designation. [Osmia]. **Osmiini**.

Pachyanthidium Friese, 1905a:66. Type species: *Anthidium bicolor* Lepeletier, 1841, by designation of Cockerell, 1920b:298. Also described as new by Friese, 1910b:158. [Anthidium]. **Anthidiini**.

Pachyceble Moure, 1940:54. Type species: *Pachyceble lanci* Moure, 1940, by original designation. **Halictini**.

Pachycentris Friese, 1902:186. Type species: *Pachycentris schrottkyi* Friese, 1902, monobasic. **Tapinotaspidini**.

Pachycerapis Cockerell, 1922d:4. Type species: *Exomalopsis cornigera* Cockerell, 1922, by original designation. [Exomalopsis]. **Exomalopsini**.

Pachycolletes Bischoff, 1954, in Stoeckhert, 1954:73. Type species: *Apis cunicularia* Linnaeus, 1761, by original designation. [Colletes]. **Colletinae**.

Pachyhalictus Cockerell, 1929d:589. Type species: *Halictus merescens* Cockerell, 1919, by original designation. [Halictus]. **Halictini**.

Pachyhalonia Moure and Michener, 1955b:281. Type species: *Dasyhalonia justi* Moure and Michener, 1955 = *Svastra sapucacensis* Cockerell, 1918, by original designation. [Dasyhalonia]. **Eucerini**.

Pachymelopsis Cockerell, 1905a:331. Type species: *Pachymelus conspicuus* Smith, 1879, by original designation. [Pachymelus]. **Anthophorini**.

Pachymelus Smith, 1879:116. Type species: *Pachymelus micrelephas* Smith, 1879, by designation of Sandhouse, 1943:581. Sandhouse considered this species to be the type because the other species originally included had been removed to *Pachymelopsis*, but see Code, 3rd ed., Art. 69(b). Her conclusion is nonetheless accepted. **Anthophorini**.

Pachynomada Rodeck, 1945:180. Type species: *Nomada vincta* Say, 1837, by original designation. [Nomada]. **Nomadini**.

Pachynomia Pauly, 1980:124. Type species: *Nomia amoena* Gerstaecker, 1870, by original designation. [Nomia]. **Nomiinae**.

Pachyodonta Rayment, 1954:48. Type species: *Binghamiella fulvicornis* Rayment, 1954, monobasic. [Binghamiella]. **Colletinae**.

Pachyosmia Ducke, 1900:18. Type species: *Osmia rufa* Linnaeus, 1758, designated by Sandhouse, 1939:9. [Osmia]. Isotypic with *Osmia*, *Amblys*, and *Ceratosmia* by synonymy. **Osmiini**.

Pachyprosopina Michener, 1965a:108. Type species: *Euryglossa paupercula* Cockerell, 1915, by original designation. [Pachyprosopis]. **Euryglossinae**.

Pachyprosopis Perkins, 1908:29. Type species: *Pachyprosopis mirabilis* Perkins, 1908, monobasic. **Euryglossinae**.

Pachyprosopula Michener, 1965a:106. Type species: *Pachyprosopis kellyi* Cockerell, 1916, by original designation. [Pachyprosopis]. **Euryglossinae**.

Pachysvastra Moure and Michener, 1955b:284. Type species: *Tetralonia leucocephala* Bertoni and Schrottky, 1910, by original designation. **Eucerini**.

Paedia Dalla Torre, 1891:147, unjustified emendation of *Paidia* Radoszkowski, 1872. **Ammobatoidini**.

Paidia Radoszkowski, 1872b:10, not Herrich-Schaffer, 1847, unnecessary replacement for *Ammobatoides* Radoszkowski, 1868. Type species: *Phileremus abdominalis* Eversmann, 1852, autobasic. Isotypic with *Ammobatoides* Radoszkowski and *Phiarus*. **Ammobatoidini**.

Palaeapis Hong, 1984:37. Type species: *Palaeapis beiboziensis* Hong, 1984, monobasic. **Fossil wasp**, described in Apidae.

Palaeorhiza Perkins, 1908:29. Type species: *Prosopis peryridis* Cockerell, 1905, by original designation. **Hylaeinae**.

Palinepeolus Holmberg, 1909b:77. Type species: *Epeolus viperinus* Holmberg, 1886, by original designation. Isotypic with *Calospiloma*; isotypic with *Isepeolus* by synonymy. **Isepeolini**.

Pallandrena Warncke, 1968:39. Type species: *Andrena pallidicincta* Brullé, 1832, by original designation. [Andrena]. **Andreninae**.

Pallhalictus Warncke, 1975b:92. Type species: *Halictus pallens* Brullé, 1832, by original designation. [Halictus]. **Halictini**.

Panomalopsis Timberlake, 1980:82. Type species: *Exomalopsis linsleyi* Timberlake, 1980, by original designation. [Exomalopsis]. **Exomalopsini**.

Panurginus Nylander, 1848:223. Type species: *Panurginus niger* Nylander, 1848, monobasic. **Panurginae**.

Panurgomia Viereck, 1909:48. Type species: *Panurgomia fuchsii* Viereck, 1909, monobasic. **Dasypodinae**.

Panurgus Panzer, 1806:209. Type species: *Andrena lobata* Panzer, 1799 = *Apis calcarata* Scopoli, 1763, by designation of Latreille, 1810:439. Later and therefore invalid type designations were *Apis ursina* Gmelin, 1790, by Westwood, 1840a:85, and *Apis atra* Panzer, 1805 = *Apis banksiana* Kirby, 1802, by Blanchard, 1849:pl. 126 (1846). Isotypic with *Eriops* by synonymy. **Panurginae**.

Papualictus Michener, 1980:8. Type species: *Homalictus megalochihus* Michener, 1980 = *Halictus lorentzi* Friese, 1911, by original designation. [Homalictus]. **Halictini**.

Papuanorhiza Hirashima, 1996:80. Type species: *Xenorhiza krombeini* Hirashima, 1996, by original designation. [Xenorhiza]. **Hylaeinae**.

Papuatrigona Michener and Sakagami, 1990, in Michener, 1990:153. Type species: *Trigona genalis* Friese, 1908, by original designation. [Trigona]. **Meliponini**.

Paraanthidiellum Pasteels, 1969a:79, unnecessary emendation of *Paranthidiellum* Michener. [Pseudoanthidium]. **Anthidiini**.

Paraanthidium Friese, 1898a:101. Type species: *Apis interrupta* Fabricius, 1781, by designation of Cockerell, 1909b: 269. [Anthidium]. **Anthidiini**.

Paracella Pasteels, 1965:277, invalid because no type species was designated. [Megachile]. **Megachilini**.

Paracella Michener, new subgenus of *Megachile* for *Paracella* Pasteels, 1965:277. Type species: *Megachile semivenusta* Cockerell, 1931. This taxon was characterized by Pasteels, 1965:227. **Megachilini**.

Paracentris Cameron, 1903a:235. Type species: *Paracentris fulvohirta* Cameron, 1903, monobasic. **Centridini**.

Parachalicodoma Pasteels, 1966:13, not Tkalcú, 1969. Type species: *Megachile incana* Friese, by original designation. [Chalicodoma]. **Megachilini**.

Parachalicodoma Tkalcú, 1969b:363, not Pasteels, 1966. Type species: *Chalicodoma rufitarsis* Lepeletier, 1841, by original designation. See *Xenochalicodoma*. [Chalicodoma]. **Megachilini**.

Paracoelioxys Gribodo, 1884:274. Type species: *Coelioxys montandoni* Gribodo, 1884 = *Coelioxys alata* Förster, 1853, monobasic. [Coelioxys]. **Megachilini**.

Paracoelioxys Radoszkowski, 1893:53, not Gribodo, 1884. Type species: *Paracoelioxys barrei* Radoszkowski, 1893, by designation of Sandhouse, 1943:583. *Coelioxys decipiens* Spinola, 1838, designated by Alfken, 1938:433, was not an originally included species. See *Radoszkowskiana*. **Megachilini**.

Paracolletes Smith, 1853:6. Type species: *Paracolletes crassipes* Smith, 1853, monobasic. **Colletinae**.

Paracrocisa Alfken, 1937:173. Type species: *Paracrocisa sinaitica* Alfken, 1937, monobasic. **Melectini**.

Paradialictus Pauly, 1984c:691. Type species: *Paradialictus synavei* Pauly, 1984, by original designation. **Halictini**.

Paradioxys Moesáry, 1894:35. Type species: *Dioxys pannonica* Moesáry, 1877, monobasic. **Dioxyini**.

Parafidelia Brauns, 1926:202. Type species: *Parafidelia friesei* Brauns, 1926, monobasic. **Fidiellini**.

Parafriesea Schrottky, 1906b:118, replacement for *Friesea* Schrottky, 1902. Type species: *Friesea brasiliensis* Schrottky, 1902 = *Camptopoeum prini* Holmberg, 1884, autobasic. **Panurginae**.

Paragapostemon Vachal, 1903:89. Type species: *Halictus podager* Vachal, 1903 = *Nomia coelestina* Westwood, 1875, by designation of Cockerell, 1905a:354 footnote. **Halictini**.

Parahalictoides Cockerell and Porter, 1899:420. Type species: *Halictoides campanulae* Cockerell, 1897, by original designation. [Halictoides]. **Rophitinae**.

Parahesma Michener, 1965a:92. Type species: *Euryglossa tuberculipes* Michener, 1965, by original designation. [Euryglossa]. **Euryglossinae**.

Paraheterorhiza Hirashima, 1980:104. Type species: *Palaeorhiza hilara* Cheesman, 1948, by original designation. [Palaeorhiza]. **Hylaeinae**.

Paralictus Robertson, 1901:229. Type species: *Halictus cephalicus* Robertson, 1892 (not Morawitz, 1873) = *Halictus cephalotes* Dalla Torre, 1896, by original designation. **Halictini**.

Paramacropis Popov and Guiglia, 1936:287. Type species: *Ctenoplectra ussuriana* Popov, 1936, monobasic. [Macropis]. **Melittinae**.

Paramegachile Friese, 1898b:198. Type species: *Apis argentata* Fabricius, 1793, by designation of Mitchell, 1934:298. [Megachile]. Isotypic with *Eutricharaea*. **Megachilini**.

Paramegachila Schulz, 1906:71, unjustified emendation of *Paramegachile* Friese, 1898. [Megachile]. **Megachilini**.

Paramegilla Friese, 1897a:18, 24. Type species: *Apis ireos* Pallas, 1773, designated by Sandhouse, 1943:584. [Podalirius]. **Anthophorini**.

Parammobates Friese, 1906e:118. Type species: *Parammobates brasiliensis* Friese, 1906, monobasic. **Epeolini**.

Parammobatodes Popov, 1931b:462. Type species: *Phiarus minutus* Mocsáry, 1878, by original designation. **Ammobatini**.

Parandrena Robertson, 1897:337. Type species: *Panurgus andrenoides* Cresson, 1878, by designation of Cockerell, 1897a:288. **Andreninae**.

Parandrenella Popov, 1958:112. Type species: *Andrena dentiventris* Morawitz, 1874, by original designation. [Andrena]. **Andreninae**.

Paranomada Linsley and Michener, 1937:82. Type species: *Paranomada nitida* Linsley and Michener, 1937, by original designation. **Brachynomadini**.

Paranomia Friese, 1897b:48, not Conrad, 1860. Type species: *Nomia chalybeata* Smith, 1875, by designation of Cockerell, 1910f:290. [Nomia]. See *Paranomina*. **Nomiinae**.

Paranomina Michener, 1944:251, not Hendel, 1907, replacement for *Paranomia* Friese, 1897. Type species: *Nomia chalybeata* Smith, 1875, by original designation and autobasic. Not replaced because subjective synonym of *Acunomia*. [Nomia]. **Nomiinae**.

Paranomoides Pesenko, 1983:175. Type species: *Nomoides steinbergi* Pesenko, 1983, by original designation. [Nomiooides]. **Nomiooidinae**.

Paranthidiellum Michener, 1948a:25. Type species: *Anthidium cibratrum* Morawitz, 1875, by original designation. **Anthidiini**.

Paranthidium Cockerell and Cockerell, 1901:50. Type species: *Anthidium perpictum* Cockerell, 1898, by original designation. **Anthidiini**.

Paranthocopa Tkalcú, 1974b:132. Type species: *Osmia pinquis* Pérez, 1895, by original designation. [Anthocopa]. **Osmiini**.

Paranychium Toro and Herrera, 1980:213. Not valid because no type species was designated. [Callonychium]. See *Paranychium* Toro. **Panurginae**.

Paranychium Toro, 1989:231. Type species: *Camptopoeum chilense* Friese, 1906, by original designation. [Callonychium]. **Panurginae**.

Parapachyprosopis Exley, 1972:17. Type species: *Pachyprosopis angophorae* Cockerell, 1912, by original designation. [Pachyprosopis]. **Euryglossinae**.

Parapartamona Schwarz, 1948:428. Type species: *Trigona zonata* Smith, 1854, by original designation. [Trigona]. **Meliponini**.

Parapolyglossa Brauns, 1929:134. Type species: *Polyglossa heterodoxa* Cockerell, 1921, by designation of Sandhouse, 1943:584. Sandhouse recorded the type as by "original designation," but this was an error. [Polyglossa]. **Colletinae**.

Paraprosopis Popov, 1939:169, replacement for *Campanularia* Méhely. Type species: *Hylaeus pictipes* Nylander, 1852, by original designation. [Prosopis]. **Hylaeinae**.

Parapsaenynthia Friese, 1908b:42. Type species: *Psaenynthia argentina* Friese, 1908 = *Caenohalictus serripes* Ducke, 1908, monobasic. [Psaenynthia]. **Panurginae**.

Pararhophites Friese, 1898c:305. Type species: *Pararhophites quadratus* Friese, 1898, monobasic. Although he described *Pararhophites* as a subgenus of *Rhophites*, Friese described the species using *Pararhophites* as a genus. [Rophites].

Pararhophitini.

Parasarus Ruz, 1993, in Ruz and Rozen, 1993:2. Type species: *Parasarus atacamensis* Ruz, 1993, by original designation.

Panurginae.

Parasphecodes Smith, 1853:39. Type species: *Parasphecodes hilactus* Smith, 1853, by designation of Sandhouse, 1943:585.

Halictini.

Paratetrapedia Moure, 1941b:517. Type species: *Ancyloscelis lineata* Spinola, 1851, by original designation.

Tapinotaspidini.

Parathrincostoma Blüthgen, 1933:389. Type species: *Parathrincostoma seyrigi* Blüthgen, 1933, by original designation.

Halictini.

Paratrigona Schwarz, 1938:487. Type species: *Melipona prosopiformis* Gribodo, 1893, by original designation.

[*Trigona*]. **Meliponini.**

Paraugochlora Schrottky, 1910:540. Type species: *Augochlora spinolae* Cockerell, 1900, by original designation.

Augochlorini.

Paraugochloropsis Schrottky, 1906a:312. Type species: *Augochloropsis lycorias* Schrottky, 1906 = *Augochlora epipyrgitis* Holmberg, 1903, monobasic. [*Augochloropsis*].

Augochlorini.

Paremisia Moure, 1945c:406. Type species: *Centris lineolata* Lepeletier, 1841 = *Bombus similis* Fabricius, 1804, by original designation.

Centridini.

Parepeolus Ducke, 1912:71, 102. Type species: *Leiopodus lecointei* Ducke, 1907 = *Epeolus aterrima* Friese, 1906, by designation of Sandhouse, 1943:585.

Osirini.

Parepicharis Moure, 1945b:307. Type species: *Epicharis zonata* Smith, 1854, by original designation.

Centridini.

Pareucera Tkalcú, 1978:164. Type species: *Eucera caspica* Morawitz, 1873, by original designation.

[*Eucera*]. **Eucerini.**

Parevaspis Ritsema, 1874:lxii. Type species: *Parevaspis basalis* Ritsema, 1874, by designation of Sandhouse, 1943:585.

Anthidiini.

Pariotrigona Moure, 1961:192. Type species: *Trigona pendleburyi* Schwarz, 1939, by original designation.

Meliponini.

Paroxystoglossa Moure, 1940:59. Type species: *Oxystoglossa jocasta* Schrottky, 1910, by original designation.

Augochlorini.

Partamona Schwarz, 1939b:23, replacement for *Patera* Schwarz, 1938. Type species: *Melipona testacea* Klug, 1807, autobasic and original designation.

[*Trigona*]. **Meliponini.**

Pasiphae Spinola, 1851:226, not Latreille, 1819. Type species: *Pasiphae caerulescens* Spinola, 1851, designated by Sandhouse, 1943:585. See *Spinolapis*.

Colletinae.

Pasites Jurine, 1807:224. Type species: *Pasites maculata* Jurine, 1807, by original designation. Subsequent designation: *Nomada schottii* Fabricius, 1804 = *Tiphia brevicornis* Panzer, 1798, by Latreille, 1810:439. **Ammobatini.**

Pasitomachtes Sandhouse, 1943:586, unjustified emendation of *Pasitomachthes* Bischoff, 1923. **Ammobatini.**

Pasitomachthes Bischoff, 1923:596. Type species: *Pasitomachthes nigerrimus* Bischoff, 1923, by original designation. Bischoff (1923) confusingly gave the type species as *nigerrimus* (without genus or author) after mentioning *Pasites nigerrimus* Friese, 1922. He included the latter among species of *Morgania*, however, and clearly intended *Pasitomachthes nigerrimus* Bischoff. **Ammobatini.**

Patagiata Blüthgen, 1949:77. Type species: *Prosopis difformis* Eversmann, 1852, by original designation.

[*Prosopis*]. **Hylaeinae.**

Patellapis Friese, 1909a:148. Type species: *Halictus schultzei* Friese, 1909, by designation of Cockerell, 1920b:311.

[*Halictus*]. **Halictini.**

Patera Schwarz, 1938:475, not Lesson, 1837. Type species: *Melipona testacea* Klug, 1807, by original designation.

[*Trigona*]. See *Partamona*.

Meliponini.

Pauphalictus Warneke, 1981:87. Type species: *Halictus pauperatus* Brullé, 1832, by original designation.

[*Halictus*]. **Halictini.**

Pavostelis Sladen, 1916b:313. Type species: *Stelis montana* Cresson, 1864, monobasic.

[*Stelis*]. **Anthidiini.**

Pectinapis LaBerge, 1970:322. Type species: *Pectinapis fasciata* LaBerge, 1970, by original designation.

Eucerini.

Pectinata Méhelý, 1935:54, 161. Invalid because no type species was designated.

[*Prosopis*]. Sandhouse's (1943:586) view that Popov (1939:169) designated a type species and thus validated the name is incorrect.

Hylaeinae.

Pelandrena Cockerell, 1909f:159. Type species: *Pelandrena reducta* Cockerell, 1909, monobasic.

Fossil.

Pelicandrena LaBerge and Ribble, 1972:346. Type species: *Parandrena atypica* Cockerell, 1941, by original designation.

[*Andrena*]. **Andreninae.**

Penapis Michener, 1965b:324. Type species: *Penapis penai* Michener, 1965, by original designation.

Rophitinae.

Peniella Toro and Ruz, 1972:146. Type species: *Camptopoeum maculatum* Spinola, 1851, by original designation.

[*Spinoliella*]. **Panurginae.**

Pentadentosmia Warneke, 1991a:14. Type species: *Osmia quinquespinosa* Friese, 1899, by original designation.

[*Osmia*]. **Osmiini.**

Pentaperdita Cockerell and Porter, 1899:414. Type species: *Perdita albovittata* Cockerell, 1895, monobasic.

[*Perdita*]. **Panurginae.**

Penteriades Michener and Sokal, 1957:158. Type species: *Osmia remotula* Cockerell, by original designation.

[*Proteriades*]. **Osmiini.**

Penthemisia Moure, 1950c:390. Type species: *Hemisia chilensis* Spinola, 1851, by original designation. [Centris]. **Centridini**.

Peponapis Robertson, 1902b:324. Type species: *Macrocera pruinosa* Say, 1837, by original designation. **Eucerini**.

Perdita Smith, 1853:128. Type species: *Perdita halictoides* Smith, 1853, monobasic. Isotypic with *Zaperdita* by synonymy. **Panurginae**.

Perditella Cockerell, 1899b:312. Type species: *Perdita "laneae"* Cockerell, 1899, error for *P. larreae* Cockerell, 1896, by original designation. [Perdita]. **Panurginae**.

Perditomorpha Ashmead, 1899a:86. Type species: *Perditomorpha brunerii* Ashmead, 1899, monobasic. **Colletinae**.

Perditopasites Rozen, 1992:49. Type species: *Oreopasites linsleyi* Rozen, 1992, by original designation. [Oreopasites]. **Ammobatini**.

Pereirapis Moure, 1943b:461. Type species: *Pereirapis rhizophila* Moure, 1943, by original designation. **Augochlorini**.

Perezia Ferton, 1914:233, not Leger and Dubosc, 1909. Type species: *Perezia maura* Ferton, 1914 = *Megachile leachella* Curtis, 1828, monobasic. See *Fertonella*. **Megachilini**.

Perissander Michener, 1942:275. Type species: *Calliopsis anomoptera* Michener, 1942, by original designation. [Calliopsis]. **Panurginae**.

Perixylocopa Hurd and Moure, 1963:232. Type species: *Xylocopa erythrina* Gribodo, 1894, by original designation. [Xylocopa]. Isotypic with *Euxylocopa* by synonymy. **Xylocopini**.

Petalosternon Brooks, 1988:484. Type species: *Anthophora rivolleti* Pérez, 1895, by original designation. [Anthophora]. **Anthophorini**.

Phaciapias Michener, 1942:277. Type species: *Conanthalictus bakeri* Crawford, 1907, by original designation. [Conanthalictus]. **Rophitinae**.

Phaenosarus Mitchell, 1934:303, 309. Type species: *Megachile fortis* Cresson, 1872, by original designation. [Megachile]. **Megachilini**.

Phaeosmia Michener, 1943:77. Type species: *Osmia enceliae* Cockerell, 1935, by original designation. [Anthocopa]. **Osmiini**.

Phanomalopsis Michener and Moure, 1957:430. Type species: *Exomalopsis jensei* Friese, 1908, by original designation. [Exomalopsis]. **Exomalopsini**.

Pharohylaeus Michener, 1965a:141. Type species: *Meroglossa lactifera* Cockerell, 1910, by original designation. **Hylaeinae**.

Phelonomada Snelling, 1986:24. Type species: *Nomada belfragei* Cresson, 1878, by original designation. [Nomada]. **Nomadini**.

Phenacolletes Cockerell, 1905b:301. Type species: *Phenacolletes mimus* Cockerell, 1905, monobasic. **Colletinae**.

Phiarus Gerstaeker, 1869:147. Type species: *Phileremulus abdominalis* Eversmann, 1852, monobasic. Isotypic with *Ammobatooides* Radoszkowski and *Paidia*. **Ammobatoidini**.

Phileremulus Cockerell, 1895:9. Type species: *Phileremulus vigilans* Cockerell, 1895, by original designation. **Neolarrini**.

Phileremus Latreille, 1809:169. Type species: *Epeolus punctatus* Fabricius, 1804, by designation of Latreille, 1810:439. *Phileremus oraniensis* Lepeletier, 1841, designated as type species by Blanchard, 1849:pl. 128 (1847) was not originally included. Isotypic with *Ammobatooides* Schenk by synonymy. **Ammobatini**.

Philotrachusa Pasteels, 1969a:22. Type species: *Anthidium aquifilum* Strand, 1912, by original designation. [Trachusa]. **Anthidiini**.

Philoxanthus Ashmead, 1898:285. Type species: *Perdita beata* Cockerell, 1895, by original designation. **Panurginae**.

Phor Robertson, 1903d:174, 175, 176. Type species: *Nomada integra* Robertson, 1893 (not Brullé, 1832) = *Nomada integerrima* Dalla Torre, 1896, by original designation. **Nomadini**.

Phyllotoma Duméril, 1860:842, not Leach, 1819. Type species: *Apis papaveris* Latreille, 1799, by designation of Michener, 1941:160. Not replaced because isotypic with *Anthocopa* and with *Furcosmia*. **Osmiini**.

Physostetha Michener, 1938a:523. Type species: *Heriades carinatum* Cresson, 1864, by original designation. [Heriades]. **Osmiini**.

Pileteucera Sitdikov and Pesenko, 1988:87. Type species: *Eucera cineraria* Eversmann, 1852 = ?*E. cinerea* Lepeletier, 1841, by original designation. [Eucera]. **Eucerini**.

Pithitis Klug, 1807, in Illiger, 1807:198; Klug, 1807b:225. Type species: *Apis smaragdula* Fabricius, 1787, monobasic. The papers by Illiger and Klug were published simultaneously: Illiger credited the name *Pithitis* to Klug and it is customary and appropriate to do so. **Ceratinini**.

Planiandrena Osychnyuk 1983:794. Type species: *Andrena planirostris* Morawitz, 1876, by original designation. [Andrena]. **Andreninae**.

Planihylaeus Houston, 1981:96. Type species: *Prosopis trilobata* Cockerell, 1910, by original designation. [Hylaeus]. **Hylaeinae**.

Plastandrena Hedicke, 1933:217. Type species: *Melitta tibialis* Kirby, 1802, by original designation. [Andrena]. **Andreninae**.

Platandrena Viereck, 1924:21. Type species: *Andrena nasonii* Robertson, 1895, by original designation. [Andrena]. **Andreninae**.

Platinopoda Dalla Torre, 1896:202, lapsus for *Platynopoda* Westwood, 1840. **Xylocopini**.

Platosmia Warncke, 1990:482. Type species: *Osmia platalea* Warncke, 1990, by original designation. [Osmia]. **Osmiini**.

Platychile Michener, 1965a:205, nomen nudum. Type species: *Megachile foliata* Smith, 1861, monobasic. Error for *Callochile*. [Megachile]. **Megachilini**.

Platyceroioxys Mitchell, 1973:120. Type species: *Coelioxys spatuliventer* Cockerell, 1927, by original designation. [Coelioxys]. **Megachilini**.

Platyhalictus Pesenko, 1984:347. Type species: *Halictus minor* Morawitz, 1876, by original designation. [Halictus]. **Halictini**.

Platynopoda Westwood, 1840b:271. Type species: *Apis latipes* Drury, 1773, by designation of Ashmead, 1899a:71. [Xylocopa]. Isotypic with *Audinetia*. **Xylocopini**.

Platyspatulariella Pittioni, 1950:80. Type species: *Prosopis punctata* Brullé, 1832, by original designation. [Prosopis]. **Hylaeinae**.

Platysta Pasteels, 1965:171. Type species: *Megachile platystoma* Pasteels, 1965, by original designation. [Megachile]. **Megachilini**.

Platysvastra Moure, 1967b:148. Type species: *Platysvastra macraspis* Moure, 1967, by original designation. **Eucerini**.

Platytrigona Moure, 1961:203. Type species: *Trigona planifrons* Smith, 1864, by original designation. **Meliponini**.

Plebeia Schwarz, 1938:480. Type species: *Trigona mosquito* Smith, 1863, by original designation. [Trigona]. **Meliponini**.

Plebeiella Moure, 1961:226. Type species: *Trigona lendliana* Friese, 1900, by original designation. **Meliponini**.

Plebeina Moure, 1961:228. Type species: *Melipona denoiti* Vachal, 1903, by original designation. **Meliponini**.

Plesianthidium Cameron, 1905:256. Type species: *Plesianthidium fulvopilosum* Cameron, 1905, by original designation. **Anthidiini**.

Plesiopanurgus Cameron, 1907:130. Type species: *Plesiopanurgus cinerarius* Cameron, 1907, monobasic. **Panurginae**.

Plistotrichia Morawitz, 1873a:134. Type species: *Nomia flavilabris* Lucas, 1846 = *Ancyla oraniensis* Lepeletier, 1841, monobasic. Isotypic with *Ancyla* by synonymy. **Ancylini**.

Plusia Hoffmannsegg 1817:52, not Hübner, 1806. Type species: *Plusia superba* Hoffmannsegg, 1817, monobasic. See *Euplusia*. **Euglossini**.

Podalirius Latreille, 1802a:430. Type species: *Apis pilipes* Fabricius, 1775 = *Apis plumipes* Pallas, 1772. Suppressed by Commission Opinion 151 (1944), Direction 4. See *Anthophora*. Isotypic with *Megilla* and *Anthophora*. **Anthophorini**.

Podasys Rafinesque, 1815:123, unjustified replacement for *Dasyopoda* Latreille, 1802. Type species: *Andrena hirtipes* Fabricius, 1793, autobasic. **Dasyopodinae**.

Poecilandrena Hedicke, 1933:218. Type species: *Andrena labiata* Fabricius, 1781, by original designation. [Andrena]. **Andreninae**.

Poecilobombus Dalla Torre, 1882:23. Type species: *Bombus sitkensis* Nylander, 1848, by designation of Sandhouse, 1943:589. [Bombus]. **Bombini**.

Poecilocentris Friese, 1900:244, 252. Type species: *Centris fasciata* Friese, 1900, by designation of Sandhouse, 1943:589. [Centris]. **Centridini**.

Poecilomelitta Friese, 1913a:574 and 1913b:585. Type species: *Poecilomelitta flava* Friese, 1913, by designation of Sandhouse, 1943:589. *Poecilomelitta* was described as new twice. **Panurginae**.

Poliandrena Warncke, 1968:71. Type species: *Andrena polita* Smith, 1847, by original designation. [Andrena]. **Andreninae**.

Policana Friese, 1910a:651. Type species: *Colletes herbsti* Friese, 1910 = *Colletes albopilosus* Spinola, 1851, by designation of Sandhouse, 1943:589. **Diphaglossinae**.

Polybiapis Cockerell, 1916d:208. Type species: *Polybiapis minus* Cockerell, 1916, by original designation. **Nomadini**.

Polyglossa Friese, 1909a:123. Type species: *Polyglossa capensis* Friese, 1909, by designation of Cockerell, 1921a:203. Sandhouse's (1943:589) subsequent designation of *P. albitaris* Friese, 1909, is invalid. **Colletinae**.

Pomibombus Skorikov, 1938a:145, unjustified emendation of *Pomobombus* Krüger, 1917. **Bombini**.

Pomobombus Krüger, 1917:65. Type species: *Bremus pomorum* Panzer, 1804, by designation of Sandhouse, 1943:589. [Bombus]. Isotypic with *Rhodobombus*. **Bombini**.

Pontanthidium Pasteels, 1969a:105. Type species: *Anthidium pontis* Cockerell, 1933, by original designation. [Anthidium]. **Anthidiini**.

Popovapis Michener, 1981:80. Type species: *Rhophites dispar* Morawitz, 1892, by original designation. [Eremaphanta]. **Dasypodinae**.

Porterapis Michener, 1989:678. Type species: *Lonchopria porteri* Ruiz, 1936, by original designation. [Lonchopria]. **Colletinae**.

Pratibombus Skorikov, 1937:59, unjustified emendation of *Pratobombus* Vogt, 1911. **Bombini**.

Pratobombus Vogt, 1911:49. Type species: *Apis pratorum* Linnaeus, 1761, by designation of Frison, 1927:67. [Bombus]. **Bombini**.

Presbia Sandhouse, 1943:590, nomen nudum. See Daly et al., 1987. **Manueliini**.

Pressibombus Frison, 1935:342. Type species: *Bremus pressus* Frison, 1935, by original designation. [Bremus]. **Bombini**.

Prionohoplitis Tkalcú, 1993a:55. Type species: *Osmia curvipes* Morawitz, 1871, by original designation. [Hoplitis]. **Osmiini**.

Proanthidium Friese, 1898a:101. Type species: *Anthidium oblongatum* Latreille, 1809 = *Anthophora oblongata* Illiger, 1806, by designation of Cockerell, 1909b:269. Pasteels (1969a) incorrectly listed *Anthidium undulatum* Dours as the type species of *Proanthidium*. [Anthidium]. **Anthidiini**.

Probombus Piton, 1940:218. Type species: *Probombus hirsutus* Piton, 1940, monobasic. **Fossil**.

Prochelostoma Robertson, 1903a:167. Type species: *Heriades philadelphi* Robertson, 1891, by original designation. **Osmiini**.

Procockerellia Timberlake, 1954:402. Type species: *Perdita albonotata* Timberlake, 1954, by original designation. [Perdita]. **Panurginae**.

Prodasyhalonia LaBerge, 1958:199. Type species: *Gaesischia mexicana* LaBerge, 1958, by original designation. [Gaesischia]. **Eucerini**.

Prodioxys Friese, 1914a:221. Type species: *Prodioxys cinnabarina* Friese, 1914 = *Dioxys longiventris* Pérez, 1895, monobasic. **Dioxyini**.

Prohalictus Pesenko, 1984:346, not Armbruster, 1938. Type species: *Apis rubicunda* Christ, 1791, by original designation. [Halictus]. See *Protohalictus*. **Halictini**.

Promelitta Warncke, 1977:59. Type species: *Dufourea alboclypeata* Friese, 1900, by original designation. [Melitta]. **Dasypodinae**.

Proplebeia Michener, 1982:44. Type species: *Trigona dominicana* Wille and Chandler, 1964, by original designation. [Trigona]. **Fossil**. **Meliponini**.

Prosamba Michener, 1981:63. Type species: *Haplomelitta griseonigra* Michener, 1981, by original designation. [Haplomelitta]. **Dasypodinae**.

Prosapis Ashmead, 1894:43, unjustified emendation of *Prosopis* Fabricius, 1804. **Hylaeinae**.

Prosopalictrus Strand, 1913b:26. Type species: *Prosopalictrus micans* Strand, 1913 (not *Halictus micans* Strand, 1909, senior homonym in *Lasioglossum*) = *Lasioglossum micante* Michener, 1993, by original designation. **Halictini**.

Prosopella Snelling, 1966:139. Type species: *Hylaeus hirti* Snelling, 1966, by original designation. [Hylaeus]. **Hylaeinae**.

Prosopis Jurine, 1801:164. Suppressed by Commission Opinion 135 (1939). **Hylaeinae**.

Prosopis Fabricius, 1804:293. Type species: *Mellinus bipunctatus* Fabricius, 1798 = *Sphex signata* Panzer, 1798, designated by Morice and Durrant, 1915:416. Isotypic with *Cingulata* by synonymy. **Hylaeinae**.

Prosopisteroides Hirashima, 1967:134. Type species: *Hylaeus heteroclitis* Hirashima, 1967, by original designation. [Hylaeus]. **Hylaeinae**.

Prosopisteron Cockerell, 1906b:17. Type species: *Prosopisteron serotinellum* Cockerell, 1906, monobasic. **Hylaeinae**.

Prosopoides Friese, 1908b:338 (reprint p. 10). Type species: *Oediscelis paradoxus* "Ducke" Friese, 1908 = *Oediscelis prosopoides* Ducke, 1907, monobasic. The name *Prosopoides* was published rather casually by Friese and attributed to Ducke. However, there was no description by Ducke and I agree with Sandhouse (1943) in attributing the name to Friese. **Xeromelissinae**.

Prosopoxylocopa Hurd and Moure, 1963:215. Type species: *Xylocopa mirabilis* Hurd and Moure, 1963, by original designation. [Xylocopa]. **Xylocopini**.

Protandrena Cockerell, 1896:91. Type species: *Andrena maurula* Cockerell, 1896, by designation of Sandhouse, 1943:591. **Panurginae**.

Protandrenopsis Crawford, 1903:337. Type species: *Protandrenopsis fuscipennis* Crawford, 1903 = *Panurgus aethiops* Cresson, 1872, by original designation. Isotypic with *Pseudopanurgus* by synonymy. **Panurginae**.

Proanthidium Cockerell and Cockerell, 1901:49. Type species: *Megachile steloides* Bingham, 1896 (preoccupied in *Anthidium*; see Michener and Griswold, 1994a) = *Anthidium longicorne* Friese, 1902, by original designation. **Anthidiini**.

Protepeolus Linsley and Michener, 1937:75. Type species: *Protepeolus singularis* Linsley and Michener, 1937, by original designation. **Protepeolini**.

Proteraner Robertson, 1903b:103. Type species: *Sphecodes runculi* Robertson, 1897, monobasic. **Halictini**.

Proteriades Titus, 1904a:25. Type species: *Proteriades semirubra* Cockerell, 1898, monobasic. **Osmiini**.

Protoanthidium Cameron, 1902b:125. Type species: *Protoanthidium rufobalteatum* Cameron, 1902, by designation of Sandhouse, 1943:591. **Anthidiini**.

Protobombus Cockerell, 1908d:326; also described as new by Cockerell, 1909e:9. Type species: *Protobombus indecisus* Cockerell, 1908, monobasic; also designated by Cockerell, 1909e:10. **Fossil**.

Protodiscelis Brèthes, 1909a:245. Type species: *Protodiscelis fiebrigii* Brèthes, 1909, monobasic. **Colletinae**.

Protodufourea Timberlake, 1955:105. Type species: *Protodufourea wasbaueri* Timberlake, 1955, by original designation. **Rophitinae**.

Protohalictus Pesenko, 1986b:631, replacement for *Prohalictus* Pesenko, 1984. Type species: *Apis rubicunda* Christ, 1791, autobasic. [Halictus]. **Halictini**.

Protomelecta Cockerell, 1908c:341. Type species: *Protomelecta brevipennis* Cockerell, 1908, monobasic. **Fossil**.

Protomelissa Friese, 1914c(June):322. Type species: *Protomelissa iridescens* Friese, 1914(June) = *Tetralonia* (?) *hoozana* Strand, 1914(Apr.-May), by designation of Sandhouse, 1943:592. Lieftinck's (1983) contention that the type species is *Anthophora sauteri* Friese, 1911(May) = *Melecta formosana* Cockerell, 1911(Mar.), is not justified. Isotypic with *Tetralonioidella* by synonymy. **Melectini**.

Protomeliturga Ducke, 1912:63, 90. Type species: *Calliopsis turnerae* Ducke, 1907, monobasic. **Panurginae**.

Protomorpha Rayment, 1959b:334. Type species: *Protomorpha tarsalis* Rayment, 1959, by original designation. **Colletinae**.

Protopithitis Hirashima, 1969:651. Type species: *Ceratina aereola* Vachal, 1903, by original designation. [Pithitis]. **Ceratinini**.

Protosiris Roig-Alsina, 1989:20. Type species: *Osiris obtusus* Michener, 1954, by original designation. **Osirini**.

Protosmia Ducke, 1900:12. Type species: *Heriades glutinosus* Giraud, 1871, designation by Michener, 1943:86 and Sandhouse, 1943:592. [Osmia]. **Osmiini**.

Protostelis Friese, 1895:25. Type species: *Stelis freyessneri* Friese, 1885 = *Anthidium annulatum* Lepeletier, 1841, by designation of Popov, 1938:41. [Stelis]. **Anthidiini**.

Protoxaea Cockerell and Porter, 1899:410. Type species: *Megacilissa gloriosa* Fox, 1893, by original designation. **Oxaeinae**.

Proxylocopa Hedicke, 1938:192. Type species: *Xylocopa olivieri* Lepeletier, 1841, by original designation. [Xylocopa]. **Xylocopini**.

Psaenythia Gerstaecker, 1868:111. Type species: *Psaenythia philanthoides* Gerstaecker, 1868, by designation of Sandhouse, 1943:592. **Panurginae**.

Psammandrena LaBerge, 1977:83. Type species: *Andrena cercocarpi* Cockerell, 1936, by original designation. [Andrena]. **Andreninae**.

Pseudagapostemon Schrottky, 1909a:145. Type species: *Agapostemon arenarius* Schrottky, 1902, by original designation. **Halictini**.

Pseudapis W. F. Kirby, 1900:15. Type species: *Pseudapis anomala* W. F. Kirby, 1900, monobasic. **Nomiinae**.

Pseudaugochlora Michener, 1954:77. Type species: *Halictus nigromarginatus* Spinola, 1851 = *Megilla graminea* Fabricius, 1804, by original designation. [Caenaugochlora]. **Augochlorini**.

Pseudaugochloropsis Schrottky, 1906a:313. Type species: *Augochloropsis sthena* Schrottky, 1906, by designation of Sandhouse, 1943:593. *Halictus nigromarginatus* Spinola, designated as the type species by Moure, 1940:51, was not an originally included species; see Michener, 1995. [Augochloropsis]. **Augochlorini**.

Pseudepeolus Holmberg, 1886b:234, 284. Type species: *Pseudepeolus fasciatus* Holmberg, 1886, monobasic. **Epeolini**.

Pseudeucera Tkalcú, 1978:157, 158. Type species: *Eucera parvicornis* Moesáry, 1878, by original designation. **Eucerini**.

Pseudhylaeus Cockerell, 1929b:299. Type species: *Euryglossa albocuneata* Cockerell, 1913, by original designation. **Hylaeinae**.

Pseudiscelis Friese, 1906a:228. Type species: *Pseudiscelis rostrata* Friese, 1906, monobasic. The type species was described in this combination although the genus-group name was proposed as a subgenus of *Oediscelis*. [Oediscelis]. **Xeromelissinae**.

Pseudoanthidium Friese, 1898a:101. Type species: *Anthidium alpinum* Morawitz, 1873, designated by Sandhouse, 1943:593. [Anthidium]. **Anthidiini**.

Pseudobranchiata Méhely, 1935:33, 139. Invalid because no type species was designated. Sandhouse's (1943:593) view that Popov (1939) designated a type species and thus validated this name is incorrect. [Prosopis]. **Hylaeinae**.

Pseudocentron Mitchell, 1934:307. Type species: *Megachile pruina* Smith, 1853, by original designation. **Megachilini**.

Pseudochilalictus Michener, 1965a:170. Type species: *Lasioglossum imitator* Michener, 1965, by original designation. [Lasioglossum]. **Halictini**.

Pseudocilissa Radoszkowski, 1891:241. Type species: *Cilissa robusta* Radoszkowski, 1876 = *Melitta dimidiata* Morawitz, 1876, monobasic. **Melittinae**.

Pseudocosmia Radoszkowski, 1886:14, unjustified emendation of *Pseudosmia* Radoszkowski, 1872. **Osmiini**.

Pseudodichroa Bischoff, 1923:595. Type species: *Omachtes capensis* Friese, 1915, by designation of Sandhouse, 1943:593. **Ammobatini**.

Pseudoheriades Peters, 1970:153. Type species: *Eriades moricei* Friese, 1897, by original designation. **Osmiini**.

Pseudoliphanthus Ruz and Toro, 1983:253. Type species: *Liphanthus rozeni* Ruz and Toro, 1983, by original designation. [Liphanthus]. **Panurginae**.

Pseudomacroteria Timberlake, 1954:349. Type species: *Perdita turgiceps* Timberlake, 1954, by original designation. [Perdita]. **Panurginae**.

Pseudomegachile Friese, 1898b:198, no included species; Friese, 1899c:36, included species. Type species: *Megachile ericetorum* Lepeletier, 1841, designated by Alfken, 1933:56. [Megachile]. **Megachilini**.

Pseudomegalochila Schulz, 1906:71, unjustified emendation of *Pseudomegachile* Friese, 1898. [Megachile]. **Megachilini**.

Pseudomelecta Radoszkowski, 1865:55. Type species: *Melecta diacantha* Eversmann, 1852, by designation of Sandhouse, 1943:594. **Melectini**.

Pseudo-osmia Radoszkowski, 1874a:137, unjustified emendation of *Pseudosmia* Radoszkowski, 1872. **Osmiini**.

Pseudoosmia Radoszkowski, 1874b:152, unjustified emendation of *Pseudosmia* Radoszkowski, 1872. **Osmiini**.

Pseudopanurgus Cockerell, 1897a:290. Type species: *Panurgus aethiops* Cresson, 1872, by original designation. Isotypic with *Protandrenopsis* by synonymy. **Panurginae**.

Pseudopasites Bischoff, 1923:593. Type species: *Pasites pygmaeus* Friese, 1922, by designation of Sandhouse, 1943:594. [Sphecodopsis]. **Ammobatini**.

Pseudopeolus Ashmead, 1899a:80, unjustified emendation of *Pseudepeolus* Holmberg, 1886. **Epeolini**.

Pseudophilanthus Alfken, 1939:121. Type species: *Pseudophilanthus taeniatus* Alfken, 1939, monobasic. **Megamomiinae**.

Pseudosarus Ruz, 1980:25. Type species: *Pseudosarus virescens* Ruz, 1980, monobasic. **Panurginae**.

Pseudosmia Radoszkowski, 1872a:xviii, no included species; Radoszkowski, 1874b:152, included species. Type species: *Megachile cristata* Fonscolombe, 1846, not Dufour, 1841 = *Anthocopa cristatula* Zanden, 1990, by designation of Cockerell, 1922a:6. **Osmiini**.

Pseudostelis Popov, 1956:167. Type species: *Stelis strandi* Popov, 1935, by original designation. **Anthidiini**.

Psilomelissodes LaBerge, 1956:1173. Type species: *Melissodes intorta* Cresson, 1872, by original designation. [Melissodes]. **Eucerini**.

Psilylaeus Snelling, 1985:28. Type species: *Psilylaeus sagiops* Snelling, 1985 = *Prosopis perlumilis* Cockerell, 1914, by original designation. **Hylaeinae**.

Psithyrus Lepeletier, 1832:373. Type species: *Apis rupestrис* Fabricius, 1793, by designation of Curtis, 1833:pl. 468. Isotypic with *Bremus* Kirby. **Bombini**.

Pteneucera Tkalcú, 1984c:72. Type species: *Eucera eucnemidea* Dours, 1873, by original designation. **Eucerini**.

Pterandrena Robertson, 1902a:187, 193. Type species: *Andrena pulchella* Robertson, 1891 (not Jurine, 1807) = *Andrena accepta* Viereck, 1916, by original designation. **Andreninae**.

Pterosarus Timberlake, 1967:10. Type species: *Calliopsis rudbeckiae* Robertson, 1895, by original designation. [Pseudopanurgus]. **Panurginae**.

Ptilandrena Robertson, 1902a:187, 192. Type species: *Andrena erigeniae* Robertson, 1891, by original designation. **Andreninae**.

Ptilocentris Snelling, 1984:22. Type species: *Centris festiva* Smith, 1854, by original designation. [Centris]. **Centridini**.

Ptilocleptis Michener, 1978b:315. Type species: *Ptilocleptis tomentosa* Michener, 1978, by original designation. **Halictini**.

Ptiloglossa Smith, 1853:7. Type species: *Ptiloglossa ducalis* Smith, 1853, monobasic. **Caupolicanini**.

Ptiloglossidia Moure, 1953a:73. Type species: *Ptiloglossidia fallax* Moure, 1953, by original designation. **Dissoglossitini**.

Ptiloglossodes Moure, 1945a:153. Type species: *Megacilissa tarsata* Friese, 1900, by original designation. [Ptiloglossa]. **Caupolicanini**.

Ptilomelissa Moure, 1943b:482. Type species: *Melissoptila bonaerensis* Holmberg, 1903, by original designation. **Eucerini**.

Ptilonomia Michener, 1965a:160. Type species: *Nomia plumosa* Michener, 1965, by original designation. [Nomia]. **Nomiinae**.

Ptilopoda Friese, 1921b:83. Type species: *Colletes maculipennis* Friese, 1921 = *Colletes spiloptera* Cockerell, 1917, monobasic. [Colletes]. **Colletinae**.

Ptilosaroides Mitchell, 1980:63. Type species: *Megachile neoxanthoptera* Cockerell, 1933, by original designation. [Cressoniella]. **Megachilini**.

Ptilosarus Mitchell, 1943:667. Type species: *Megachile bertonii* Schrottky, 1908, by original designation. [Megachile]. **Megachilini**.

Ptilothrix Smith, 1853:131. Type species: *Ptilothrix plumatus* Smith, 1853, monobasic. Isotypic with *Energoponus* by synonymy. **Emphorini**.

Ptilothryx Marschall, 1873:269, unjustified emendation of *Ptilothrix* Smith, 1853. **Emphorini**.

Ptilotopus Klug, 1810:32. Type species: *Ptilotopus americanus* Klug, 1810, monobasic. **Centridini**.

Ptilotrigona Moure, 1951a:47. Type species: *Trigona heideri* Friese, 1900 = *Trigona lurida* Smith, 1854, by original designation. [Trigona]. **Meliponini**.

Ptoleglossa Friese, 1930:127, replacement for *Leptoglossa* Friese, 1925. Type species: *Leptoglossa paradoxa* Friese, 1925 = *Orphana inquirenda* Vachal, 1909, autobasic. Isotypic with *Leptoglossa* and by synonymy with *Orphana*. **Andreninae**.

Puncthalictus Warncke, 1975b:87. Type species: *Hylaeus punctatissimus* Schenck, 1853, by original designation. [Halictus]. **Halictini**.

Puncticolletes Noskiewicz, 1936:26, 490. Invalid because no type species was designated. Warncke (1978) considered *Puncticolletes* a synonym of *Rhinocolletes*. [Colletes]. **Colletinae**.

Pycnanthidium Krombein, 1951:292. Type species: *Pycnanthidium solomonis* Krombein, 1951, by original designation. **Anthidiini**.

Pyganthophora Brooks, 1988:460. Type species: *Apis retusa* Linnaeus, 1758, by original designation. [Anthophora]. **Anthophorini**.

Pyghalictus Warncke, 1975b:103. Type species: *Andrena pygmaea* Fabricius, 1804, by original designation. *Pyghalictus* was intended for the group of what is usually called *Lasioglossum politum* (Schenck). The identity of *Andrena pygmaea* Fabricius is in doubt (see Ebmer, 1988). [Halictus]. **Halictini**.

Pygnanthidiellum Mavromoustakis, 1963b:492. Type species: *Anthidium zebra* Friese, 1904, by original designation. [Pygnanthidium]. **Anthidiini**.

Pyganthidium Mavromoustakis, 1963b:491, unjustified emendation of *Pycnanthidium* Krombein, 1951. **Anthidiini**.

Pygopasiphae Michener, 1989:647. Type species: *Leioproctus mourellus* Michener, 1989, by original designation. [Leioproctus]. **Colletinae**.

Pygoperdita Timberlake, 1956:275. Type species: *Perdita interrupta* Cresson, 1878, by original designation. [Perdita]. **Panurginae**.

Pyrobombus Dalla Torre, 1880:40. Type species: *Apis hypnorum* Linnaeus, 1758, monobasic. [Bombus]. Isotypic with *Anodontobombus*, *Uncobombus*, and *Hypnorobombus*. **Bombini**.

Pyrosmia Tkalcú, 1975b:182. Type species: *Osmia ferruginea* Latreille, 1811, by original designation. [Osmia]. **Osmiini**.

Pyrrhobombus Dalla Torre, 1882:28, unjustified emendation of *Pyrobombus* Dalla Torre, 1880. [Bombus]. **Bombini**.

Pyrrhomelecta Ashmead, 1899a:66. Type species: *Epeolus glabratus* Cresson, 1878, by original designation. **Epeolini**.

Quasihesma Exley, 1968a:228. Type species: *Quasihesma moonbiensis* Exley, 1968, by original designation. **Euryglossinae**.

Quasilictus Walker, 1986:166. Type species: *Homalictus brevicornutus* Walker, 1986, by original designation. [Homalictus]. **Halictini**.

Radoszkowskiana Popov, 1955b:547, replacement for *Paracoelioxys* Radoszkowski, 1893. Type species: *Paracoelioxys barrei* Radoszkowski, 1893, autobasic and by original designation. **Megachilini**.

Ranmalictus Pesenko, 1984:347. Type species: *Halictus latisignatus* Cameron, 1908, by original designation. [Halictus]. **Halictini**.

Ramphorhina Michener, 1939:8, lapsus for *Arogochila* Michener, 1939. [Ashmeadiella]. **Osmiini**.

Ranthidiellum Pasteels, 1969a:48. Type species: *Protoanthidium rufomaculatum* Cameron, 1902, by original designation. For aspects of this type designation, see Michener and Griswold, 1994a. [Anthidiellum]. **Anthidiini**.

Rapanthidium Michener, 1948a:11. Type species: *Anthidium vespooides* Friese, 1925, by original designation. [Paranthidium]. **Anthidiini**.

Raphidostoma Cockerell, 1936a:133. Type species: *Raphidostoma ceanothi* Cockerell, 1936 = *Chelynia rubifloris* Cockerell, 1898, by original designation. Isotypic with *Chelostomopsis* by synonymy. **Osmiini**.

Rathymus Smith, 1854:278, not Dejean, 1831, unjustified emendation of *Rhathymus* Lepeletier and Serville, 1828. **Rhathymini**.

Reanthidium Pasteels, 1969a:87. Type species: *Anthidium reticulatum* Mocsáry, 1884, by original designation. **Anthidiini**.

Rediviva Friese, 1911a:671. Type species: *Andrena peringueyi* Friese, 1911, by designation of Cockerell, 1931a:402. [Andrena]. **Melittinae**.

Redivivoides Michener, 1981:42. Type species: *Redivivoides simulans* Michener, 1981, by original designation. **Melittinae**.

Reedapis Michener, 1989:656. Type species: *Leioproctus bathycyaneus* Toro, 1973, by original designation. [Leioproctus]. **Colletinae**.

Reepenia Friese, 1909b:205. Type species: *Nomia variabilis* Friese, 1909, by designation of Sandhouse, 1943:595, Michener, 1965a:159, and Commission Opinion 788 (1966). The name is not monobasic as indicated by Sandhouse (1943) and by the Official List of Generic Names of the International Commission on Zoological Nomenclature, since Friese cited additional species-group names as "varieties" of *variabilis*. [Nomia]. **Nomiinae**.

Rhacandrena LaBerge, 1977:90. Type species: *Andrena brevipalpis* Cockerell, 1930, by original designation. [Andrena]. **Andreninae**.

Rhamphorhina Michener and Sokal, 1957:159, unjustified emendation of *Ramphorhina* Michener, 1939, lapsus for *Arogochila* Michener, 1939. [Ashmeadiella]. **Osmiini**.

Rhanthidiellum Pasteels, 1972:102, unjustified emendation of *Ranthidiellum* Pasteels, 1969. [Anthidiellum]. **Anthidiini**.

Rhaphandrena LaBerge, 1971b:507. Type species: *Andrena prima* Casad and Cockerell, 1896, by original designation. [Andrena]. **Andreninae**.

Rhathymus Lepeletier and Serville, 1828:448. Type species: *Rhathymus bicolor* Lepeletier and Serville, 1828, monobasic. Isotypic with *Colax*; isotypic with *Liogaster* by synonymy. **Rhathymini**.

Rhectomia Moure, 1947a:9. Type species: *Rhectomia pumilla* Moure, 1947, by original designation. **Augochlorini**.

Rhinepeolus Moure, 1955:115. Type species: *Epeolus rufiventris* Friese, 1908, by original designation. **Epeolini**.

Rhineta Illiger, 1807:198. Type species: *Nomada schottii* Fabricius, 1804 = *Tiphia brevicornis* Panzer, 1798, monobasic. Isotypic with *Biastes* by synonymy. **Biastini**.

Rhinetula Friese, 1922b:581. Type species: *Rhinetula denticrus* Friese, 1922, by designation of Sandhouse, 1943:596. **Halictini**.

Rhinochaetula Friese, 1912:185. Type species: *Capicola cinctiventris* Friese, 1912, by designation of Cockerell, 1915:343. **Dasypodinae**.

Rhinocoelioxys Mitchell, 1973:113. Type species: *Coelioxys zapoteca* Cresson, 1878, by original designation. [Coelioxys]. **Megachilini**.

Rhinocolletes Cockerell, 1910a:242. Type species: *Colletes nasutus* Smith, 1853, monobasic. [Colletes]. **Colletinae**.

Rhinocorynura Schrottky, 1909a:147. Type species: *Halictus inflaticeps* Ducke, 1906, by original designation. Isotypic with *Ctenocorynura* by synonymy. **Augochlorini**.

Rhinomegilla Brooks, 1988:482. Type species: *Anthophora megarrhina* Cockerell, 1910, by original designation. [Anthophora]. **Anthophorini**.

Rhodanthidium Isensee, 1927:374. Type species: *Anthidium siculum* Spinola, 1838, by original designation. [Anthidium]. **Anthidiini**.

Rhodobombus Dalla Torre, 1880:40. Type species: *Bremus pomorum* Panzer, 1804, by designation of Sandhouse, 1943:596. [Bombus]. Isotypic with *Pomobombus*. **Bombini**.

Rhodocentris Friese, 1900:244, 250. Type species: *Centris difformis* Smith, 1854, by designation of Sandhouse, 1943:596. [Centris]. Isotypic with *Heterocentris* and *Gundlachia* by synonymy. **Centridini**.

Rhodohylaeus Michener, 1965a:124. Type species: *Prosopis cenicera* Cockerell, 1910, by original designation. [Hylaeus]. **Hylaeinae**.

Rhodomegachile Michener, 1965a:201. Type species: *Megachile abdominalis* Smith, 1853, by original designation. [Chalicodoma]. **Megachilini**.

Rhodosmia Michener, 1943:85. Type species: *Osmia paradoxa* Friese, 1899, by original designation. [Anthocopa]. **Osmiini**.

Rhoepeolus Moure, 1955:117. Type species: *Rhoepeolus bigibbosus* Moure, 1955, by original designation. **Epeolini**.

Rhopalictus Sichel, 1867:146. Type species: *Corynura flavofasciata* Spinola, 1851 = *Halictus chilensis* Spinola, 1851, designated by Sandhouse, 1943:596. **Augochlorini**.

Rhopalolemma Roig-Alsina, 1991:33. Type species: *Rhopalolemma robertsi* Roig-Alsina, 1991, by original designation. **Biastini**.

Rhopalomelissa Alfken, 1926b:267. Type species: *Rhopalomelissa xanthogaster* Alfken, 1926, by designation of Sandhouse, 1943:596. **Nomiinae**.

Rhopites Agassiz, 1846:29 [Hymenoptera section], unjustified emendation of *Rophites* Spinola, 1808. **Rophitinae**.

Rhophitoides Schenck, 1861:69 (for the date see Michener, 1986a). Type species: *Rhophitoides distinguendus* Schenck, 1861 = *Rophites cana* Eversmann, 1852, monobasic. **Rophitinae**.

Rhophitulus Ducke, 1907:366. Type species: *Rhophitulus frisei* Ducke, 1907, by designation of Sandhouse, 1943:597. Sandhouse corrected the spelling of the species name to *frisei* but since Ducke used *frisei* on pages 366 and 368, he must

have intended that spelling although naming the species for H. Friese. **Panurginae**.

Rhynchalictus Moure, 1947a:5. Type species: *Rhynchalictus rostratus* Moure, 1947, by original designation. **Halictini**.

Rhynchocolletes Moure, 1943b:447. Type species: *Rhynchocolletes albicinctus* Moure, 1943, by original designation. **Colletinae**.

Rhynostelis Moure and Urban, 1994:297. Type species: *Anthidium multiplicatum* Smith, 1879, by original designation. **Anthidiini**.

Rhysoxylocopta Hurd and Moure, 1963:178. Type species: *Xylocopta cantabrita* Lepeletier, 1841, by original designation. [Xylocopta]. **Xylocopini**.

Rhyssomegachile Mitchell, 1980:63. Type species: *Megachile simillima* Smith, 1853, by original designation. [Cressoniella]. **Megachilini**.

Rhyteucera Sitzikov and Pesenko, 1988:87. Type species: *Eucera parvula* Friese, 1895, by original designation. [Eucera]. **Eucerini**.

Rivalisia Strand, 1921:270. Type species: *Rivalisia metallica* Strand, 1921 = *?Augochlora argentina* Friese, 1908, monobasic. **Augochlorini**.

Robertsonella Titus, 1904a:22. Type species: *Robertsonella gleasoni* Titus, 1904, by original designation. **Osmiini**.

Robustobombus Skorikov, 1922b:157. Type species: *Bombus robustus* Smith, 1854, by designation of Sandhouse, 1943:597. [Alpigenobombus]. **Bombini**.

Rophites Spinola, 1808:8, 72. Type species: *Rophites quinquespinosus* Spinola, 1808, monobasic. **Rophitinae**.

Rostratilapis Friese, 1914b:26. Type species: *Halictus macrognathus* Friese, 1914, by designation of Sandhouse, 1943:597. [Halictus]. **Halictini**.

Rostrohalictus Warncke, 1975b:88. Type species: *Halictus longirostris* Morawitz, 1876, by original designation. [Halictus]. **Halictini**.

Roussyana Manning, 1961:306. Type species: *Apis palminickenensis* Roussy, 1937, by original designation. [Electrapis]. **Fossil**.

Royanthidium Pasteels, 1969a:86. Type species: *Anthidium melanurum* Klug, 1832, by original designation. **Anthidiini**.

Rubicundobombus Skorikov, 1922b:154. Type species: *Bombus rubicundus* Smith, 1854, by designation of Sandhouse, 1943:597. [Fervidobombus]. **Bombini**.

Ruderariobombus Krüger, 1920:350. Type species: *Apis ruderaria* Müller, 1776, by designation of Yarrow, 1971:27. [Bombus]. **Bombini**.

Rufandrena Warncke, 1968:33. Type species: *Andrena rufiventris* Lepeletier, 1841, by original designation. [Andrena]. **Andreninae**.

Rufipedibombus Skorikov, 1922b:156. Type species: *Bombus rufipes* Lepeletier, 1836, monobasic. **Bombini**.

Rufocinctobombus Frison, 1927:78. Type species: *Bombus rufocinctus* Cresson, 1863, monobasic. [Bremus]. **Bombini**.

Rugalictus Pauly, 1980:121. Type species: *Halictus weenenicus* Cockerell, 1941 = *Halictus retigerus* Cockerell, 1940, by original designation. [Pachyhalictus]. Isotypic with *Dictyohalictus* by synonymy. **Halictini**.

Ruginomia Pauly, 1990:103. Type species: *Nomia rugiventris* Friese, 1930, by original designation. **Nomiinae**.

Ruizanthesda Moure, 1964b:265. Type species: *Halictus proximus* Spinola, 1851, by original designation. **Halictini**.

Ruizanthesdella Moure, 1964b:267. Type species: *Halictus mutabilis* Spinola, 1851, by original designation. [Ruizanthesda]. **Halictini**.

Ruiziapis Timberlake, 1953:598, emendation of *Ruiziapis* Timberlake, 1952. **Panurginae**.

Ruiziella Timberlake, 1952a:105 (April), not Cortes, 1952 (March). Type species: *Camptopoeum ochraceum* Friese, 1908, by original designation. See *Ruiziapis* and *Ruiziapis*. Isotypic with *Arhysosage* by synonymy. **Panurginae**.

Ruiziapis Timberlake, 1952b:528, error for *Ruiziapis* and replacement for *Ruiziella* Timberlake, 1952. **Panurginae**.

Sabulicola Verhoeff, 1890:328. Type species: *Sabulicola cirsii* Verhoeff, 1890 = *Nomada albilabris* Fabricius, 1793, monobasic. **Halictini**.

Sakagamilla Moure, 1989b:681. Type species: *Sakagamilla affabra* Moure, 1989, by original designation. **Meliponini**.

Salemanthidium Pasteels, 1969a:51. Type species: *Hyanthidium salemense* Cockerell, 1919, by original designation. [Eoanthidium]. **Anthidiini**.

Samba Friese, 1908a:568. Type species: *Samba calcarata* Friese, 1908, monobasic. **Dasypodinae**.

Santiago Urban, 1989:117. Type species: *Santiago mourei* Urban, 1989, by original designation. **Eucerini**.

Saranthidium Moure and Hurd, 1960:6. Type species: *Anthidium flavopictum* Smith, 1854, by original designation; incorrectly stated to be *Anthidium furcatum* Ducke, 1908, by Griswold and Michener, 1988:321. [Hyanthidium]. **Anthidiini**.

Sarocolletes Michener, 1989:643. Type species: *Lonchopria rufipennis* Cockerell, 1917, by original designation. [Leioproctus]. **Colletinae**.

Sarogaster Robertson, 1918a:92, replacement for *Gnathodon* Robertson, 1903. Type species: *Megachile georgica* Cresson, 1878, autobasic. **Megachilini**.

Saropoda Latreille, 1809:177, unnecessary replacement for *Helophilida* Klug, 1807. Type species: *Apis bimaculata* Panzer, 1798, autobasic. *Saropoda* was named with two included (but synonymous) species; it was also stated to be a replacement for *Helophilida* Klug. Sandhouse (1943) regarded the fixation as automatic (autobasic) since *Helophilida* is monobasic. *Apis rotundata* Panzer, 1798 = *A. bimaculata* Panzer, 1798, designated by Westwood, 1840a:86, was not originally included in *Helophilida*. **Anthophorini**.

Sayapis Titus, 1906:154, replacement for *Gnathocera* Provancher, 1882, and *Ceratias* Robertson, 1903. Type species: *Megachile pugnatus* Say, 1837, autobasic. **Megachilini**.

Scaphandrena Lanham, 1949:200. Type species: *Andrena montrosensis* Viereck and Cockerell, 1914, by original designation. [Andrena]. **Andreninae**.

Scaptotrigona Moure, 1942:315. Type species: *Trigona postica* Latreille, 1807, by original designation. [Trigona]. **Meliponini**.

Saura Schwarz, 1938:479. Type species: *Trigona latitarsis* Friese, 1900, by original designation. [Trigona]. **Meliponini**.

Schizandrena Hedicke, 1933:218. Type species: *Andrena aulica* Morawitz, 1876 = *Melitta himaculata* Kirby, 1802, by original designation. [Andrena]. **Andreninae**.

Schizocoelioxys Mitchell, 1973:50. Type species: *Coelioxys funeralia* Smith, 1854, by original designation. The spelling *Schizococoelioxys* in the heading of Mitchell's description (p. 50) is corrected on the same page and elsewhere in the work. [Coelioxys]. **Megachilini**.

Schizomegachile Michener, 1965a:199. Type species: *Megachile monstrosa* Smith, 1868, by original designation. [Chalicodoma]. **Megachilini**.

Schmiedeknechtia Friese, 1896:277. Type species: *Schmiedeknechtia oraniensis* Friese, 1896, monobasic. **Ammobatoidini**.

Schoenherria Hurd and Moure, 1963:118, unjustified emendation of *Schonherria* Lepeletier, 1841. [Xylocopa]. **Xylocopini**.

Schonherria Dalla Torre, 1896, 202, unjustified emendation of *Schonherria* Lepeletier, 1841. [Xylocopa]. **Xylocopini**.

Schonherria Lepeletier, 1841:207. Type species: *Xylocopa micans* Lepeletier, 1841, by designation of Sandhouse, 1943:598. [Xylocopa]. **Xylocopini**.

Schrottka Friese, 1908c:170, no included species. Type species: *Tetrapedia goeldiana* Friese, 1899, first included species, by Friese, 1908b:58. Isotypic with *Lanthanomelissa* by synonymy. **Tapinotaspidini**.

Schrottkyapis Mitchell, 1980:46. Type species: *Megachile assumptionis* Schrottky, 1908, by original designation. [Eumegachile]. **Megachilini**.

Schwarziana Moure, 1943a:147. Type species: *Melipona quadripunctata* Lepeletier, 1836, by original designation. [Trigona]. **Meliponini**.

Schwarzula Moure, 1946a:439. Type species: *Trigona timida* Silvestri, 1902, by original designation. **Meliponini**.

Scirtetica Holmberg, 1903:389, not Saussure, 1884. Type species: *Scirtetica antarctica* Holmberg, 1903, monobasic. See *Alloscirtetica*, *Holmbergiapis*, and *Neoscirtetica*. **Eucerini**.

Scircticops Moure and Michener, 1955b:261. Type species: *Tetralonia gayi* Spinola, 1851, by original designation. [Allosecirtetica]. **Eucerini**.

Scitandrena Warneke, 1968:51. Type species: *Andrena scita* Eversmann, 1852, by original designation. [Andrena]. **Andreninae**.

Scotiandrena Lanham, 1949:223. Type species: *Andrena osmiooides* Cockerell, 1916, by original designation. [Andrena]. **Andreninae**.

Scrapter Lepeletier and Serville, 1828:403, not *Scrapter* Lepeletier, 1841. Type species: *Scrapter bicolor* Lepeletier and Serville, 1828, by designation of Vachal, 1897:63. Ashmead's (1899a:84) subsequent designation of *Scrapter brullei* Lepeletier, 1841, as the type species of "Scrapter Lepel," concerns *Scrapter* Lepeletier, 1841 (= *Panurginus*), which was proposed as a new genus, with no reference to *Scrapter* Lepeletier and Serville, 1828. Cockerell's (1920a:254) subsequent designation of *Andrena lagopus* Latreille, 1809, as the type species of "Scrapter Lepeletier, 1825" is invalid. **Colletinae**.

Scrapter Lepeletier, 1841:260, not *Scrapter* Lepeletier and Serville, 1828. Type species: *Scrapter brullei* Lepeletier, 1841, by designation of Ashmead, 1899a:84. Not replaced because a synonym of *Panurginus*. **Panurginae**.

Scapteroides Gribodo, 1894:112. Type species: *Scapteroides difformis* Gribodo, 1894 = *Panurgus annulatus* Sichel, 1859, monobasic. **Panurginae**.

Scapteropsis Viereck, 1922:42. Type species: *Andrena fenningeri* Viereck, 1922, monobasic. [Andrena]. **Andreninae**.

Seladonia Robertson, 1918a:91. Type species: *Apis seladonia* Fabricius, 1794, by original designation. **Halictini**.

Sellalictus Pauly, 1980:120. Type species: *Halictus latesellatus* Cockerell, 1937, by original designation. [Lasioglossum]. **Halictini**.

Semicarinella Pasteels, 1984:32. Type species: *Pseudoanthidium latitarse* Pasteels, 1984, by original designation. [Pseudoanthidium]. **Anthidiini**.

Senexibombus Frison, 1930:3. Type species: *Bombus senex* Vollenhoven, 1873, by original designation. [Bremus]. **Bombini**.

Separatobombus Frison, 1927:64. Type species: *Bombus separatus* Cresson, 1863 = *Apis griseocollis* DeGeer, 1773, by original designation. [Bremus]. **Bombini**.

Serapis Smith, 1854:218, not Link, 1830. Type species: *Serapis denticulatus* Smith, 1854, monobasic. See *Serapista*. **Anthidiini**.

Serapista Cockerell, 1904a:357, replacement for *Serapis* Smith, 1854. Type species: *Serapis denticulatus* Smith, 1854, autobasic. **Anthidiini**.

Sericogaster Westwood, 1835:71. Type species: *Sericogaster fasciatus* Westwood, 1835, monobasic. Isotypic with *Holohesma* by synonymy. **Euryglossinae**.

Sericohalictus Pesenko, 1986a:137. Type species: *Halictus subopacus* Smith, 1853, by original designation. [Lasioglossum]. **Halictini**.

Severanthidium Pasteels, 1969a:106. Type species: *Anthidium severini* Vachal, 1903, by original designation. [Anthidium]. **Anthidiini**.

Shornherria Ashmead, 1899a:71, error for *Schonherria* Lepeletier, 1841. **Xylocopini**.

Sibiricibombus Skorikov, 1938a:145, unjustified emendation of *Sibiricobombus* Vogt, 1911. **Bombini**.

Sibiricobombus Vogt, 1911:60. Type species: *Apis sibirica* Fabricius, 1781, by designation of Sandhouse, 1943:599. [Bombus]. **Bombini**.

Sigmatapis Maa, 1953:556. Type species: *Apis cerana* Fabricius, 1793, by original designation. [Apis]. **Apini**.

Simandrena Pérez, 1890:174. Type species: *Andrena propinquua* Schenck, 1851 = *Melitta dorsata* Kirby, 1802, by designation of Hedicke, 1933:218. [Andrena]. **Andreninae**.

Simanthesdon Zavortink, 1975:232. Type species: *Simanthesdon linsleyi* Zavortink, 1975, by original designation. **Encerini**.

Simcolletes Warneke, 1978:348. Type species: *Colletes similis* Schenck, 1853, by original designation. [Colletes]. **Colletinae**.

Simioceratina Daly and Moure, 1988, in Daly, 1988:42. Type species: *Ceratina moerenhoui* Vachal, 1903, by original designation. [Ctenoceratina]. **Ceratininae**.

Simpanurgus Warneke, 1972:67. Type species: *Panurgus phyllopodus* Warneke, 1972, by original designation. [Panurgus]. **Panurginae**.

Sinomacropis Michener, 1981:51. Type species: *Macropis hedini* Alfken, 1936, by original designation. [Macropis]. **Melittinae**.

Smeathhalictus Warneke, 1975b:88. Type species: *Melitta smeathmanella* Kirby, 1802, by original designation. [Halictus]. **Halictini**.

Smithia Vachal, 1897:63, not Milne-Edwards, 1851. Type species: *Scrapter carinata* Smith, 1862, by designation of Cockerell, 1910b:358. See *Melittosmithia*. **Euryglossinae**.

Solamegilla Marikovskaya, 1980:650. Type species: *Anthophora prshewalskyi* Morawitz, 1880, by original designation. **Anthophorini**.

Solenopalpa Pérez, 1897a:lxvii; also described as new by Pérez, 1897b:260. Type species: *Solenopalpa fertoni* Pérez, 1903 (not *Andrena fertoni* Pérez, 1895) = *Andrena solenopalpa* Benoist, 1945, monobasic. **Andreninae**.

Sophrobombus Cockerell, 1908d:326; also described as new by Cockerell, 1909g:21. Type species: *Sophrobombus fatalis* Cockerell, 1908, monobasic. **Fossil**.

Soroensisibombus Vogt, 1911:63. Type species: *Apis soroensis* Fabricius, 1776, monobasic. [Bombus]. Isotypic with *Kallobombus*. **Bombini**.

Spatularia Méhely, 1935:69, 175, not Van Deventer, 1904. Invalid because no type species was designated. [Prosopis]. See *Spatulariella*. **Hylaeinae**.

Spatulariella Popov, 1939:169, replacement for *Spatularia* Méhely, 1935. Type species: *Hylaeus hyalinatus* Smith, 1842, by original designation. [Prosopis]. **Hylaeinae**.

Spatunomia Pauly, 1980:121. Type species: *Nomia filifera* Cockerell, 1932, by original designation. [Nomia]. **Nomiinae**.

Sphaerhylaeus Cockerell, 1929a:217. Type species: *Gnathoprosopis globulifera* Cockerell, 1929, by original designation. [Gnathoprosopis]. **Hylaeinae**.

Sphecodes Latreille, 1804:182. Type species: *Nomada gibba* Fabricius, 1804 = *Sphex gibba* Linnaeus, 1758, monobasic. Isotypic with *Dichroa*. **Halictini**.

Sphecodium Robertson, 1903b:104. Type species: *Sphecodium cressoni* Robertson, 1903, by original designation. **Halictini**.

Sphecodogastra Ashmead, 1899a:92. Type species: *Sphecodes texana* Cresson, 1872, by original designation. **Halictini**.

Sphecodopsis Bischoff, 1923:593. Type species: *Omachthes capicola* Strand, 1911, by original designation. **Ammobatini**.

Sphecodosoma Crawford, 1907:182. Type species: *Sphecodosoma pratti* Crawford, 1907, by original designation. **Rophitinae**.

Sphecogaster Hirashima, 1978:72, not Lacordaire, 1869. Type species: *Palaeorhiza paradisea* Hirashima, 1978, by original designation. See *Eusphecogaster*. [Palaeorhiza]. **Hylaeinae**.

Sphecophala Ashmead, 1899a:89, unjustified replacement for *Sphegocephala* Saussure, 1890. Type species: *Sphegocephala philanthoides* Saussure, 1890, autobasic. **Nomiinae**.

Sphegocephala Saussure, 1890:74. Type species: *Sphegocephala philanthoides* Saussure, 1890, monobasic. **Nomiinae**.

Sphegodes Mavromoustakis, 1949:553, unjustified emendation of *Sphecodes* Latreille, 1804. **Halictini**.

Spinanthidiellum Pasteels, 1969a:59. Type species: *Anthidium volkmanni* Friese, 1909, by original designation. [Spinanthidium]. **Anthidiini**.

Spinanthidium Mavromoustakis, 1951:977. Type species: *Anthidium trachusiforme* Friese, 1913, by original designation. [Dianthidium]. **Anthidiini**.

Spinasterella Gupta and Sharma, 1993, in Gupta, 1993:104. Type species: *Spinasterella mervatus* Gupta and Sharma, 1993, by original designation. **Osmiini**.

Spinolapis Moure, 1951c:193, replacement for *Pasiphae* Spinola, 1851. Type species: *Pasiphae caerulescens* Spinola, 1851, by original designation and autobasic. **Colletinae**.

Spinoliella Ashmead, 1899a:84. Type species: *Camptopoeum nomioides* [sic] Spinola = *Camptopoeum nomadooides* Spinola, 1851, by original designation. **Panurginae**.

Spinopasites Warneke, 1983:281. Type species: *Pasites spinotus* Warneke, 1983, by original designation. [Pasites]. **Ammobatini**.

Steganomus Ritsema, 1873:224. Type species: *Steganomus javanus* Ritsema, 1873, monobasic. **Nomiinae**.

Stegocephala Dalla Torre, 1896:176, unjustified emendation of *Sphegocephala* Saussure, 1890. **Nomiinae**.

Stelidiella Timberlake, 1941:133, lapsus for *Stelidina* Timberlake, 1941. [Stelis]. **Anthidiini**.

Stelidina Timberlake, 1941:131. Type species: *Stelis hemirhoda* Linsley, 1939, by original designation. [Stelis]. **Anthidiini**.

Stelidium Robertson, 1902b:323. Type species: *Stelidium trypetinum* Robertson, 1902, monobasic. The subsequent designation, Robertson, 1903b:104, of "S. cressoni" Robertson as the type species of "Stelidium" was a lapsus; the intention was to designate that species as the type of *Sphecodium*. **Anthidiini**.

Stelidium Robertson, 1903b:104, lapsus for *Sphecodium*; this is not *Stelidium* Robertson, 1902b. Type species: *Sphecodium cressoni* Robertson, 1903, by original designation. **Halictini**.

Stelidomorpha Morawitz, 1875:131. Type species: *Anthidium nasutum* Latreille, 1809, monobasic. **Anthidiini**.

Stelis Panzer, 1806:246. Type species: *Apis aterrima* Panzer, 1798, not Christ, 1791 = *Apis punctulatissima* Kirby, 1802, monobasic. Isotypic with *Trachusa* Jurine, *Gyrodroma* Klug, *Gymnus*, and *Ceraplastes*. **Anthidiini**.

Stellenigris Meunier, 1888:152. Type species: *Stellenigris vandeveldi* Meunier, monobasic. **Megachilini**.

Stelodides Moure, 1953c:123. Type species: *Megachile euzona* Pérez, 1899, by original designation. **Megachilini**.

Stenandrena Timberlake, 1949, in Lanham, 1949:213. Type species: *Pterandrena pallidifovea* Viereck, 1904, by original designation. [Andrena]. **Andreninae**.

Stenanthidiellum Pasteels, 1968a:1059. Also described as new by Pasteels, 1969a:53. Type species: *Anthidium sibiricum* Eversmann, 1852, by original designation. [Banthanthidium]. **Anthidiini**.

Stenanthidium Moure, 1947a:16. Type species: *Anthidium espinosai* Ruiz, 1938, by original designation. **Anthidiini**.

Stenocolletes Schrottky, 1909c:253. Type species: *Stenocolletes pictus* Schrottky, 1909, monobasic. **Panurginae?**

Stenoediscelis Toro and Moldenke, 1979:135. Type species: *Oediscelis inermis* Friese, 1908, by original designation. **Xeromalissinae**.

Stenoheriades Tkalcú, 1984a:1. Type species: *Pseudoheriades hofferi* Tkalcú, 1984, by original designation. [Pseudoheriades]. **Osmiini**.

Stenohesma Michener, 1965a:99. Type species: *Stenohesma nomadiformis* Michener, 1965, by original designation. **Euryglossinae**.

Stenomegachile Pasteels, 1965:507. Type species: *Megachile chelostomoides* Gribodo, 1894, by original designation. [Chalicodoma]. **Megachilini**.

Stenomelissa Hirashima and LaBerge, 1965, in Hirashima, 1965b:500. Type species: *Andrena halictoides* Smith, 1869, by original designation. [Andrena]. **Andreninae**.

Stenosmia Michener, 1941:165. Type species: *Osmia flavigornis* Morawitz, 1878, by original designation. **Osmiini**.

Stenothisa Moure, 1954b:277. Type species: *Doeringiella angustata* Moure, 1954, by original designation. [Doeringiella]. **Epeolini**.

Stenotritus Smith, 1853:119. Type species: *Stenotritus elegans* Smith, 1853, monobasic. **Stenotritidae**.

Stenoxylocopa Hurd and Moure, 1960:809. Type species: *Xylocopa artifex* Smith, 1874, by original designation. [Xylocopa]. **Xylocopini**.

Stictonomia Cameron, 1905:192. Type species: *Stictonomia punctata* Cameron, 1905, monobasic. **Nomiinae**.

Stilbeucera Tkalcú, 1978:162. Type species: *Eucera clypeata* Erichson, 1835, by original designation. [Eucera]. **Eucerini**.

Stilbomalopsis Silveira, 1995:450. Type species: *Exomalopsis solani* Cockerell, 1896, by original designation. [Exomalopsis]. **Exomalopsini**.

Stilpnosoma Smith, 1879:16. Type species: *Stilpnosoma laevigatum* Smith, 1879, monobasic. **Euryglossinae**.

Strandiella Friese, 1912:181. Type species: *Strandiella longula* Friese, 1912, by designation of Cockerell, 1916a:430. **Colletinae**.

Suandrena Warncke, 1968:52. Type species: *Andrena suerimensis* Friese, 1884, by original designation. [Andrena]. **Andreninae**.

Subterraneibombus Skorikov, 1938a:145, unjustified emendation of *Subterraneobombus* Vogt, 1911. **Bombini**.

Subterraneobombus Vogt, 1911:62. Type species: *Apis subterranea* Linnaeus, 1758, by designation of Frison, 1927:68. [Bombus]. **Bombini**.

Sudila Cameron, 1898:52. Type species: *Sudila bidentata* Cameron, 1898, by designation of Sandhouse, 1943:602. Isotypic with *Ceylonicola* by synonymy. **Halictini**.

Sulcobombus Krüger, 1917:65. Type species: *Bombus confusus* Schenck, 1859, designated by Sandhouse, 1943:502. This was a sectional name, but is treated as a subgeneric name in view of the Code, 3rd ed., art 10(e). [Bombus]. Isotypic with *Confusibombus* and *Confusobombus*. **Bombini**.

Sundatrígona Inoue and Sakagami, 1993:769, replacement for *Trigonella* Sakagami and Moure, 1975. Type species: *Trigona moorei* Schwarz, 1937, by original designation and autobasic. [Trigona]. **Meliponini**.

Svastra Holmberg, 1884:127. Type species: *Svastra bombilans* Holmberg, 1884, by designation of Sandhouse, 1943:602. **Eucerini**.

Svastrides Michener, LaBerge, and Moure, 1955:220. Type species: *Tetralonia melanura* Spinola, 1851, by original designation. **Eucerini**.

Svastrina Moure and Michener, 1955b:276. Type species: *Svastrina anaroliata* Moure and Michener, 1955 = *Svastra subapicalis* Brèthes, 1910, by original designation. **Eucerini**.

Svastropsis Moure and Michener, 1955b:291. Type species: *Tetralonia bipunctata* Friese, 1908, by original designation. [Martinapis]. **Eucerini**.

Symmorphpha Klug, 1807, in Illiger, 1807:198, nomen nudum. **Melectini**.

Symmorphpha Klug, 1807b:227. Type species: *Apis punctata* Fabricius, 1775 = *Apis albifrons* Forster, 1771, monobasic. Isotypic with *Melecta*. **Melectini**.

Synalonia Robertson, 1905:365, unjustified emendation of *Synhalonia* Patton, 1879. **Eucerini**.

Synapis Cockerell, 1907a:229. Type species: *Apis henshawi* Cockerell, 1907, monobasic. [Apis]. **Fossil. Apini**.

Synepeolus Cockerell, 1921b:6. Type species: *Triepeolus insolitus* Cockerell, 1921, monobasic. [Triepeolus]. **Epeolini**.

Synhalonia Patton, 1879a:473. Type species: *Melissodes fulvitarsis* Cresson, 1878, by original designation. **Eucerini**.

Synocoelioxys Mitchell, 1973:57. Type species: *Coelioxys texana* Cresson, 1872, by original designation. [Coelioxys]. **Megachilini**.

Syntrichalonia LaBerge, 1957:10. Type species: *Melissodes exquisita* Cresson, 1878, by original designation. **Eucerini**.

Systropha Illiger, 1806:145. Type species: *Andrena spiralis* Olivier, 1789 = *Eucera curvicornis* Scopoli, 1770, monobasic. **Rophitinae**.

Systrophidia Cockerell, 1936b:477. Type species: *Systropha ogilviei* Cockerell, 1936, monobasic. [Systropha]. **Rophitinae**.

Tachymelissodes LaBerge, 1956:1170. Type species: *Melissodes dagosa* Cockerell, 1909, by original designation. [Melissodes]. **Eucerini**.

Taeniandrena Hedicke, 1933:219. Type species: *Melitta ovatula* Kirby, 1802, by original designation. [Andrena]. **Andreninae**.

Tanguticobombus Pittioni, 1939:201. Type species: *Bombus tanguticus* Morawitz, 1886, by original designation. [Bombus]. **Bombini**.

Tapinorrhina Michener and Moure, 1957:421. Type species: *Exomalopsis caerulea* Friese, 1906, by original designation. [Tapinotaspis]. **Tapinotaspidiini**.

Tapinorrhina Moure, 1994a:274, unjustified emendation of *Tapinorrhina* Michener and Moure, 1957. **Tapinotaspidiini**.

Tapinotapsis [sic] Holmberg, 1887b:225, nomen nudum. **Tapinotaspidiini**.

Tapinotaspis Holmberg, 1903:413. Type species: *Tapinotaspis chacabucensis* Holmberg, 1903 = *Exomalopsis chalybaea* Friese, 1899, by designation of Sandhouse, 1943:603. **Tapinotaspidiini**.

Tapinotaspoides Moure, 1944b:10. Type species: *Tetrapedia serraticornis* Friese, 1899, by original designation. **Tapinotaspidiini**.

Tarsalia Morawitz, 1895:9. Type species: *Tarsalia hirtipes* Morawitz, 1895, monobasic. **Ancylini**.

Tarsandrena Osychnyuk, 1984a:24. Type species: *Andrena tarsata* Nylander, 1848, by original designation. [Andrena]. **Andreninae**.

Teleutemnesta Holmberg, 1887b:225, nomen nudum. **Emphorini**.

Teleutemnesta Holmberg, 1903:400. Type species: *Teleutemnesta fructifera* Holmberg, 1903, by designation of Cockerell, 1918b:36. **Emphorini**.

Temnosoma Smith, 1853:38. Type species: *Temnosoma metallicum* Smith, 1853, monobasic. **Augochlorini**.

Temnosomula Ogleblin, 1953:2. Type species: *Temnosoma platensis* Ogleblin, 1953 = *Micraugochlora spherocephala* Schrottky, 1909, by original designation. [Temnosoma]. Isotypic with *Micraugochlora* by synonymy. **Augochlorini**.

Teratognatha Ogleblin, 1956:154. Type species: *Teratognatha modesta* Ogleblin, 1956, by original designation. **Exomalopsini**.

Tergosmia Warncke, 1988a:390. Type species: *Osmia tergestensis* Ducke, 1897, by original designation. [Osmia]. **Osmiini**.

Terrestribombus Vogt, 1911:55. Type species: *Apis terrestris* Linnaeus, 1758, by designation of Frison, 1927:67. [Bombus].

Isotypic with *Bremus* Jurine, *Bremus* Panzer, *Bombus*, and *Leucobombus*. **Bombini**.

Tetrachlora Schrottky, 1909b:481. Type species: *Halictus multiplex* Vachal, 1903, monobasic. [Augochlora]. **Augochlorini**.

Tetraglossula Ogleblin, 1948:165. Type species: *Tetraglossula deltiwaga* Ogleblin, 1948, by original designation. **Colletinae**.

Tetragona Lepeletier and Serville, 1828:710. Type species: *Trigona elongata* Lepeletier and Serville, 1828 = *Centris clavipes* Fabricius, 1804, by original designation. [Trigona]. **Meliponini**.

Tetragonilla Moure, 1961:210. Type species: *Trigona atripes* Smith, 1857, by original designation. **Meliponini**.

Tetragonisca Moure, 1946a:438. Type species: *Trigona jaty* Smith, 1863 = *Trigona angustula* Latreille, 1811, by original designation. **Meliponini**.

Tetragonula Moure, 1961:206. Type species: *Trigona iridipennis* Smith, 1854, by original designation. **Meliponini**.

Tetralonia Spinola, 1838:538, replacement for *Macrocerca* Latreille, 1810. Type species: *Eucera antennata* Fabricius, 1793 = *Apis malvae* Rossi, 1790, autobasic. See Michener, 1997. **Eucerini**.

Tetraloniella Ashmead, 1899a:61. Type species: *Macrocerca graja* Eversmann, 1852, by original designation. **Eucerini**.

Tetralonioidella Strand, 1914 (Apr.–May):140. Type species: *Tetralonia* (?) *hoozana* Strand, 1914, monobasic. Isotypic with *Protomelissa* by synonymy. **Melectini**.

Tetranthidium Moure, 1947a:15. Type species: *Anthidium latum* Schrottky, 1902, by original designation. **Anthidiini**.

Tetrapaedia Dalla Torre, 1896:299, unjustified emendation of *Tetrapedia* Klug, 1810. **Tetrapediini**.

Tetrapedia Klug, 1810:33. Type species: *Tetrapedia diversipes* Klug, 1810, monobasic. **Tetrapediini**.

Tetrapedium Berthold, 1827:468, unjustified emendation of *Tetrapedia* Klug, 1810. **Tetrapediini**.

Tetraperdita Cockerell and Porter, 1899:415. Type species: *Perdita sexmaculata* Cockerell, 1895, monobasic. [Perdita]. **Panurginae**.

Tetrigona Moure, 1961:215. Type species: *Trigona apicalis* Smith, 1857, by original designation. **Meliponini**.

Thalestria Smith, 1854:283. Type species: *Thalestria smaragdina* Smith, 1854 = *Euglossa spinosa* Fabricius, 1804, monobasic. **Epeolini**.

Thaumatosoma Smith, 1865:394. Type species: *Thaumatosoma duboultai* Smith, 1865, monobasic. **Megachilini**.

Thectochlora Moure, 1940:51. Type species: *Halictus alaris* Vachal, 1904, by original designation. **Augochlorini**.

Thoracobombus Dalla Torre, 1880:40. Type species: *Apis sylvarum* Linnaeus, 1761, by designation of Sandhouse, 1943:604. [Bombus]. Isotypic with *Adventoribombus*. **Bombini**.

Thrausmus Bulyssen, 1900:177. Type species: *Thrausmus grandidieri* Bulyssen, 1900, monobasic. **Halictini**.

Thrinchostoma Saussure, 1890:52. Type species: *Thrinchostoma renitantly* Saussure, 1890, monobasic. **Halictini**.

Thrincohalictus Blüthgen, 1955:20. Type species: *Halictus prognathus* Pérez, 1912, by original designation. [Halictus]. **Halictini**.

Thrincostoma Dalla Torre, 1896:641, also Blüthgen, 1926, 1928b, 1930, unjustified emendation of *Thrinchostoma* Saussure, 1890. **Halictini**.

Thygater Holmberg, 1884:133. Type species: *Tetralonia terminata* Smith, 1854 = *Macrocerana analis* Lepeletier, 1841, monobasic. **Eucerini**.

Thygatina Cockerell, 1911f:237. Type species: *Thygatina fumida* Cockerell, 1911, monobasic. **Eucerini**.

Thyreothremma Holmberg, 1903:391. Type species: *Thyreothremma rhopalocera* Holmberg, 1903 = *Melissoptila tandilensis* Holmberg, 1884, by designation of Sandhouse, 1943:604. Isotypic with *Thyreotremata*; isotypic with *Melissoptila* by synonymy. **Eucerini**.

Thyreotremata Holmberg, 1887b:225, nomen nudum. **Eucerini**.

Thyreotremata Sandhouse, 1943:604. Type species: *Thyreothremma rhopalocera* Holmberg, 1903 = *Melissoptila tandilensis* Holmberg, 1884, by designation of Moure and Michener, 1955b:305. Published as a junior synonym and therefore not available according to the Code, 3rd ed., Art. 11(e). See Moure and Michener, 1955b:305 footnote. Isotypic with *Thyreothremma*; isotypic with *Melissoptila* by synonymy. **Eucerini**.

Thyreus Panzer, 1806:263. Type species: *Nomada scutellaris* Fabricius, 1781, monobasic. Isotypic with *Crocissa*. **Melectini**.

Thysandrena Lanham, 1949:213. Type species: *Andrena candida* Smith, 1879, by original designation. [Andrena]. **Andreninae**.

Titusella Cockerell, 1906e:445. Type species: *Titusella pronitens* Cockerell, 1906, monobasic. **Osmiini**.

Tmetocelia Moure, 1943b:481. Type species: *Megalopta sulciventris* Friese, 1926, by original designation. **Augochlorini**.

Torocolletes Michener, 1989:651. Type species: *Lonchopria fazii* Herbst, 1923, by original designation. [Leioproctus]. **Colletinae**.

Torridapis Pasteels, 1977:195. Type species: *Coelioxys torrida* Smith, 1854, by original designation. [Liothyrapis]. **Megachilini**.

Townsendiella Crawford, 1916:136, 138. Type species: *Townsendiella pulchra* Crawford, 1916, monobasic. **Townsendiellini**.

Trachandrena Robertson, 1902a:187, 189. Type species: *Andrena rugosa* Robertson, 1891, by original designation. **Andreninae**.

Trachina Klug, 1807b:226. Type species: *Centris longimana* Fabricius, 1804, by designation of Cockerell, 1906d:105. **Centridini**.

Trachusa Jurine, 1801:164, not Panzer, 1804. Type species: *Apis aterrima* Panzer, 1798, by designation of Morice and Durrant, 1915:426. Suppressed by Commission Opinion 135 (1939), Direction 4. Isotypic with *Stelis*, *Gyrodroma* Klug, *Gymnus*, and *Ceraplastes*. **Anthidiini**.

Trachusa Panzer, 1804b:expl. pl. 14-15. Type species: *Trachusa serratulae* Panzer, 1804 = *Apis byssina* Panzer, 1798, by designation of Sandhouse, 1943:605. Isotypic with *Megachileoides*; isotypic with *Diphysis* by synonymy. **Anthidiini**.

Trachusoides Michener and Griswold, 1994a:324. Type species: *Trachusoides simplex* Michener and Griswold, 1994, by original designation. **Anthidiini**.

Trachusomimus Popov, 1964:406. Type species: *Trachusa perdita* Cockerell, 1904, by original designation. **Anthidiini**.

Trachyrhiza Hirashima, 1980:100. Type species: *Palaeorhiza rugosa* Hirashima, 1980, by original designation. [Palaeorhiza]. **Hylaeinae**.

Trianthidiellum Pasteels, 1969a:58. Type species: *Hypanthidium sheppardi* Mavromoustakis, 1937, by original designation. **Anthidiini**.

Trianthidium Mavromoustakis, 1958:435. Type species: *Anthidium caturigense* Giraud, 1863, by original designation. [Rhodanthidium]. **Anthidiini**.

Trichanthidiodes Michener and Griswold, 1994a:319. Type species: *Pachyanthidium semihuteum* Pasteels, 1984, by original designation. [Pachyanthidium]. **Anthidiini**.

Trichanthidium Cockerell, 1930b:52. Type species: *Pachyanthidium occipitale* Cockerell, 1930 = *Anthidium bengtense* Vachal, 1903, monobasic. [Pachyanthidium]. **Anthidiini**.

Trichanthidium Moure, 1947a:20, not Cockerell, 1930. Type species: *Anthidium subpetiolatum* Schrottky, 1910, by original designation. See *Anthidiandum*. **Anthidiini**.

Trichochostoma Ashmead, 1899a:91, error for *Thrinchostoma* Saussure, 1890. **Halictini**.

Trichinosmia Sinha, 1958:244. Type species: *Osmia latisulcata* Michener, 1936, by original designation. [Osmia]. **Osmiini**.

Trichocentris Snelling, 1956:4. Type species: *Centris rhodoleuca* Cockerell, 1923 = *Centris caesalpiniae* var. *rhodopus* Cockerell, 1897, by original designation. **Centridini**.

Trichocerapis Cockerell, 1904b:292. Type species: *Tetralonia mirabilis* Smith, 1865, by original designation. **Eucerini**.

Trichocolletes Cockerell, 1912:176. Type species: *Lamprocolletes venustus* Smith, 1862, by original designation. **Colletinae**.

Tricholiphanthus Ruz and Toro, 1983:267. Type species: *Liphanthus leucostomus* Ruz and Toro, 1983, by original designation. [Liphanthus]. **Panurginae**.

Trichonomada Michener, 1996:90. Type species: *Trichonomada roigella* Michener, 1996, by original designation. **Brachynomadini**.

Trichopasites Linsley, 1942:127. Type species: *Neopasites insoletus* Linsley, 1942, by original designation. [Neopasites]. **Ammiobatoidini.**

Trichorhopalomelissa Wu, 1985:58. Type species: *Rhopalomelissa hainanensis* Wu, 1985, by original designation. [Rhopalomelissa]. **Nomiinae.**

Trichostoma Dalla Torre, 1896:381, also Friese, 1909a:150, unjustified emendation of *Thrinchostoma* Saussure, 1890. **Halictini.**

Trichota Méhely, 1935:63, 169. Invalid because no type species was designated. [Prosopis]. Sandhouse's (1943:606) view that Popov, 1939:169, designated a type species and thus validated the name is incorrect. **Hylaeinae.**

Trichothurgus Moure, 1949b:270. Type species: *Megachile dubia* Sichel, by original designation. *Trichothurgus* and *Lithurgomma* Moure were published simultaneously. Michener (1983), as first reviser, selected *Trichothurgus* as the generic name when they are considered synonymous. **Lithurgini.**

Trichotosmia Tkalcú, 1980:16. Type species: *Wainia consimilis* Tkalcú, 1980, by original designation. [Wainia]. **Osmiini.**

Trichotrigona Camargo and Moure, 1983:421. Type species: *Trichotrigona extranea* Camargo and Moure, 1983, by original designation. **Meliponini.**

Trichurochile Mitchell, 1980:63. Type species: *Megachile thygaterella* Schrottky, 1913, by original designation. [Cressoniella]. **Megachilini.**

Tricornibombus Skorikov, 1922b:151. Type species: *Bombus tricornis* Radoszkowsky, 1888, monobasic. [Agrobombus]. **Bombini.**

Tridentosmia Schmiedeknecht, 1885:21. Type species: *Osmia tridentata* Dufour and Perris, 1840, by designation of Michener, 1941:159. [Osmia]. **Osmiini.**

Tripeolus Robertson, 1901:231. Type species: *Epeolus concavus* Cresson, 1878, by original designation. Epeolini.

Triepicharis Moure, 1945b:304. Type species: *Epicharis analis* Lepeletier, 1841, by original designation. **Centridini.**

Trigona Jurine, 1807:245. Type species: *Apis amalthea* Olivier, 1789, by designation of Latreille, 1810:439. **Meliponini.**

Trigonella Sakagami and Moure, 1975, in Sakagami, 1975:57, not da Costa, 1778. Type species: *Trigona moorei* Schwarz, 1937, monobasic. See *Sundatrigona*. **Meliponini.**

Trigonisca Moure, 1950a:249. Type species: *Trigona duckei* Friese, 1900, by original designation. [Hypotrigona]. **Meliponini.**

Trigonopedia Moure, 1941b:518. Type species: *Trigonopedia oligotricha* Moure, 1941, by original designation. **Tapinotaspidini.**

Trilia Vachal, 1899:534. Type species: *Dufourea muoti* Vachal, 1899, monobasic. [Dufourea]. **Rophitini.**

Trinchostoma Sandhouse, 1943:606, incorrectly attributed to Sladen, 1915:214, unjustified emendation of *Thrinchostoma* Saussure, 1890. **Halictini.**

Trinomia Pauly, 1980:122. Type species: *Nomia tridentata* Smith, 1875, by original designation. [Nomia]. **Nomiinae.**

Triopasites Linsley, 1939b:8. Type species: *Triopasites timberlakei* Linsley, 1939, by original designation. **Brachynomadini.**

Troandrena Warneke, 1974:108, nomen nudum. [Andrena]. **Andreninae.**

Troandrena Warneke, 1975a:81. Type species: *Andrena troodica* Warneke, 1975, by original designation. [Andrena]. **Andreninae.**

Tropandrena Viereck, 1924:21. Type species: *Andrena fragilis* Smith, 1853, by original designation. [Andrena]. **Andreninae.**

Trophocleptria Holmberg, 1886b:233, 275. Type species: *Trophocleptria variolosa* Holmberg, 1886, monobasic. **Epeolini.**

Tropicocoelioxys Gupta, 1991:425. Type species: *Coelioxys genoconca* Gupta, 1991, by original designation. [Coelioxys]. **Megachilini.**

Tropidopedia Michener and Moure, 1957:411. Type species: *Paratetrapedia seabrai* Michener and Moure, 1957, by original designation. [Paratetrapedia]. **Tapinotaspidini.**

Tropirhopalomelissa Wu, 1985:58. Type species: *Rhopalomelissa nigra* Wu, 1985, by original designation. [Rhopalomelissa]. **Nomiinae.**

Truncandrena Warneke, 1968:46. Type species: *Andrena truncatilabris* Morawitz, 1878, by original designation. [Andrena]. **Andreninae.**

Trypetes Schenck, 1861:32, 89. [For the date, see Michener, 1986a.] Type species: *Apis truncorum* Linnaeus, 1758, monobasic. Isotypic with *Heriades*. **Osmiini.**

Tuberanthidium Pasteels, 1969a:87. Type species: *Anthidium tuberculiferum* Brauns, 1905, by original designation. **Anthidiini.**

Tumidihesma Exley, 1996:253. Type species: *Tumidihesma tridentata* Exley, 1996, by original designation. **Euryglossinae.**

Turkanthidium Pasteels, 1969a:103. Type species: *Anthidium unicum* Morawitz, 1875, by original designation. [Anthidium]. **Anthidiini.**

Turnerella Cockerell, 1910c:262. Type species: *Turnerella gilberti* Cockerell, 1910, monobasic. **Euryglossinae.**

Tylandrena LaBerge, 1964:312. Type species: *Cilissa erythrogaster* Ashmead, 1890, by original designation. [Andrena]. **Andreninae.**

Tylanthidium Urban, 1994a:277. Type species: *Tylanthidium tuberigaster* Urban, 1994, by original designation. **Anthidiini.**

Tylomegachile Moure, 1953c:120. Type species: *Megachile orba* Schrottky, 1913, by original designation. [Megachile]. **Megachilini.**

Tytthalcicus Pesenko, 1984:348. Type species: *Halictus maculatus* Smith, 1848, by original designation. [Halictus]. **Halictinae.**

Ulandrena Warncke, 1968:43. Type species: *Andrena schulzi* Strand, 1921, by original designation. [Andrena]. **Andreninae**.

Ulanthidium Michener, 1948a:13. Type species: *Ulanthidium mitchelli* Michener, 1948, by original designation. **Anthidiini**.

Uncobombus Krüger, 1917:65. Type species: *Apis hypnorum* Linnaeus, 1758, by designation of Williams, 1991:69. A sectional name, treated as a genus-group name in view of the Code, 3rd ed., Art. 10(e). Krüger attributed the name to Vogt but Krüger evidently wrote the text of the paper. [Bombus]. Isotypic with *Pyrobombus*, *Anodontobombus*, and *Hypnorobombus*. **Bombini**.

Urocolletes Michener, 1965a:58. Type species: *Leioproctus rhodurus* Michener, 1965, by original designation. [Leioproctus]. **Colletinae**.

Urohalictus Michener, 1980:16. Type species: *Urohalictus lieftincki* Michener, 1980, by original designation. **Halictini**.

Uromonia Michener, 1981:23. Type species: *Uromonia stagei* Michener, 1981, by original designation. **Meganomiinae**.

Verbenapis Cockerell and Atkins, 1902:44. Type species: *Calliopsis verbena* Cockerell and Porter, 1899, monobasic. [Calliopsis]. **Panurginae**.

Vestitohalictus Blüthgen, 1961:287. Type species: *Halictus vestitus* Lepeletier, 1841, by original designation. [Halictus]. **Halictini**.

Viereckella Swenk, 1907:298. Type species: *Viereckella obscura* Swenk, 1907 = *Nomada pilosula* Cresson, 1878, by original designation. **Osirini**.

Viridosmia Warncke, 1988b:5. Type species: *Osmia saxicola* Ducke, 1899, by original designation. [Osmia]. **Osmiini**.

Volucellobombus Skorikov, 1922b:123, 149. Type species: *Bombus volucelloides* Gribodo, 1891, monobasic. **Bombini**.

Wagenknechta Moure, 1950c:389. Type species: *Centris cineraria* Smith, 1854, by original designation. [Centris]. **Centridini**.

Wainia Tkalcú, 1980:1. Type species: *Wainia lonavlae* Tkalcú, 1980, by original designation. **Osmiini**.

Warnckeia Pagliano and Scaramozzino, 1990:6, replacement for *Melanthidium* Pasteels, 1969. Type species: *Anthidium concolor* Friese, 1913, autobasic. **Anthidiini**.

Willinkapis Moure, 1953a:66. Type species: *Ptiloglossa chalybaea* Friese, 1906, by original designation. **Caupolicanini**.

Xanthandrena Lanham, 1949:218. Type species: *Andrena auricoma* Smith, 1879, by original designation. [Andrena]. **Andreninae**.

Xanthemisia Moure, 1945c:401. Type species: *Centris bicolor* Lepeletier, 1841, by original designation. **Centridini**.

Xanthepecharis Moure, 1945b:297. Type species: *Epicharis bicolor* Smith, 1854, by original designation. **Centridini**.

Xanthesma Michener, 1965a:97. Type species: *Euryglossa furcifera* Cockerell, 1913, by original designation. **Euryglossinae**.

Xanthidium Robertson, 1903d:174, 175, 177, not Ehrenberg, 1833. Type species: *Nomada luteola* Olivier, 1811, by original designation. This name is preoccupied but since it is a synonym of *Nomada*, it has not been replaced. **Nomadini**.

Xanthoceratina Vecht, 1952:39. Type species: *Ceratina cladura* Cockerell, 1919, by original designation. [Ceratina]. **Ceratinini**.

Xanthocotelles Toro and Cabezas, 1978:131. Type species: *Xanthocotelles adesniae* Toro and Cabezas, 1978, by original designation. **Colletinae**.

Xanthopedia Michener and Moure, 1957:411. Type species: *Paratetrapedia tricolor* Michener and Moure, 1957 = *Tetrapedia iheringii* Friese, 1899, by original designation. [Paratetrapedia]. **Tapinotaspidini**.

Xanthosarius Robertson, 1903a:168, 169, 172. Type species: *Megachile latimanus* Say, 1823, by original designation. Isotypic with *Delomegachile* by synonymy. **Megachilini**.

Xanthosmia Robertson, 1903a:166, 171. Type species: *Osmia cordata* Robertson, 1902, by original designation. **Osmiini**.

Xenanthidium Pasteels, 1984:33. Type species: *Xenanthidium biserratum* Pasteels (described as *biserrata*), 1984, by original designation. **Anthidiini**.

Xenochalicodoma Tkalcú, 1971:34, replacement for *Parachalicodoma* Tkalcú, 1969. Type species: *Chalicodoma rufitarsis* Lepeletier, autobasic. [Chalicodoma]. **Megachilini**.

Xenochilicola Toro and Moldenke, 1979:145. Type species: *Xenochilicola manigna* Toro and Moldenke, 1979, by original designation. **Xeromelissinae**.

Xenoglossa Smith, 1854:315. Type species: *Xenoglossa fulva* Smith, 1854, monobasic. **Eucerini**.

Xenoglossodes Ashmead, 1899a:63. Type species: *Melissodes albata* Cresson, 1872, by original designation. **Eucerini**.

Xenohesma Michener, 1965a:96. Type species: *Euryglossa flavicauda* Michener, 1965, by original designation. [Euryglossa]. **Euryglossinae**.

Xenohylaeus Michener, 1965a:136. Type species: *Hylaeus rieki* Michener, 1965, by original designation. [Hylaeus]. **Hylaeinae**.

Xenoliphanthus Ruz and Toro, 1983:260. Type species: *Psaenythia parvula* Friese, 1916, by original designation. [Liphanthus]. **Panurginae**.

Xenomegachile Rebmann, 1970:44. Type species: *Megachile albocincta* Radoszkowski, 1874, by original designation. [Megachile]. **Megachilini**.

Xenopanurgus Michener, 1952:24. Type species: *Xenopanurgus radioi* Michener, 1952, by original designation. **Panurginae**.

Xenopeponapis Hurd and Linsley, 1970:29. Type species: *Melissodes crassidentata* Cockerell, 1949, by original designation. [Peponapis]. **Eucerini**.

Xenorhiza Michener, 1965a:146. Type species: *Palaeorhiza hamada* Cheesman, 1948, by original designation. [Palaeorhiza]. **Hylaeinae**.

Xenoxylocopa Hurd and Moure, 1963:243. Type species: *Mesotrichia chiyakensis* Cockerell, 1908, by original designation. [Xylocopa]. **Xylocopini**.

Xeralictoides Stage, 1981, in Michener, 1981:99. Type species: *Hesperapis laticeps* Crawford, 1917, by original designation. **Dasypodinae**.

Xeralictus Cockerell, 1927a:41. Type species: *Xeralictus timberlakei* Cockerell, 1927, monobasic. **Rophitinae**.

Xerammobates Popov, 1951:904. Type species: *Ammobates oxianus* Popov, 1951, by designation of the Commission, Opinion 1853 (1996). *Ammobates biastoides* Friese, 1895, designated as the type species by Popov, 1951, was misidentified (Baker, 1995b). [Ammobates]. **Ammobatini**.

Xerocentris Snelling, 1974:3. Type species: *Centris californica* Timberlake, 1940, by original designation. [Centris]. **Centridini**.

Xeroctenoides Mitchell, 1973:44. Type species: *Coelioxys edita* Cresson, 1872, by original designation. [Coelioxys]. **Megachilini**.

Xeroheriades Griswold, 1986:165. Type species: *Xeroheriades micheneri* Griswold, 1986, by original designation. **Osmiini**.

Xeromacroteria Timberlake, 1954:412. Type species: *Macroteria cephalotes* Cresson, 1878, by original designation. [Perdita]. **Panurginae**.

Xeromegachile Mitchell, 1934:302, 309. Type species: *Megachile integra* Cresson, by original designation. [Megachile]. **Megachilini**.

Xeromelecta Linsley, 1939a:450. Type species: *Bombomelecta larreae* Cockerell, 1900, by original designation. [Melecta]. **Melectini**.

Xeromelissa Cockerell, 1926a:221. Type species: *Xeromelissa wilmatiae* Cockerell, 1926, monobasic. **Xeromelissinae**.

Xeropasites Linsley, 1942:130. Type species: *Townsendiella rufiventris* Linsley, 1942, by original designation. [Townsendiella]. **Townsendiellini**.

Xeropeponapis Hurd and Linsley, 1970:28. Type species: *Peponapis timberlakei* Hurd and Linsley, 1964, by original designation. [Peponapis]. **Eucerini**.

Xerophasma Cockerell, 1923a:1. Type species: *Xerophasma bequaerti* Cockerell, 1923 = *Perdita bequaertiana* Cockerell, 1951, by original designation. **Panurginae**.

Xerosmia Michener, 1943:81. Type species: *Osmia xerophila* Cockerell, 1935, by original designation. [Anthocopa]. **Osmiini**.

Xilocopa Latreille, 1802a:432. Suppressed by Commission Opinion 743 (1965). See *Xylocopa*. **Xylocopini**.

Xiphandrena LaBerge, 1971b:504. Type species: *Andrena mendica* Mitchell, 1960, by original designation. [Andrena]. **Andreninae**.

Xylocopa Latreille, 1802b:379. Type species: *Apis violacea* Linnaeus, 1758, by designation of Westwood, 1840a:86. **Xylocopini**.

Xylocopina Hurd and Moure, 1963:160. Type species: *Xylocopa ruficollis* Hurd and Moure, 1963, by original designation. [Xylocopa]. **Xylocopini**.

Xylocopoda Hurd and Moure, 1963:105. Type species: *Xylocopa elegans* Hurd and Moure, 1963, by original designation. [Xylocopa]. **Xylocopini**.

Xylocopoides Michener, 1954:155. Type species: *Apis virginica* Linnaeus, 1771, by original designation. [Xylocopa]. **Xylocopini**.

Xylocopsis Hurd and Moure, 1963:124. Type species: *Xylocopa fumesta* Maidl, 1912, by original designation. [Xylocopa]. **Xylocopini**.

Xylocospila Hurd and Moure, 1963:109. Type species: *Xylocopa bambusae* Schrottky, 1902, by original designation. [Xylocopa]. **Xylocopini**.

Xylomelissa Hurd and Moure, 1963:219. Type species: *Xylocopa carinata* Smith, 1874 = *Xylocopa hottentotta* Smith, 1854, by original designation. [Xylocopa]. **Xylocopini**.

Zacea Ashmead, 1899a:73. Type species: *Zacea rufipes* Ashmead, 1899, monobasic. **Dasypodinae**.

Zacosmia Ashmead, 1898:282. Type species: *Melecta maculata* Cresson, 1879, by original designation. Isotypic with *Micromelecta*. **Melectini**.

Zadontomerus Ashmead, 1899a:69. Type species: *Ceratina tejonensis* Cresson, 1864, by original designation. **Ceratinini**.

Zalygus Cockerell, 1929b:321. Type species: *Zalygus cornutus* Cockerell, 1929, monobasic. **Euryglossinae**.

Zaodontomerus Cockerell and Porter, 1899:406, unjustified emendation of *Zadontomerus* Ashmead, 1899. **Ceratinini**.

Zaperdita Robertson, 1918a:91. Type species: *Perdita maura* Cockerell, 1901 = *Perdita halictoides* Smith, 1853, by original designation. Isotypic with *Perdita* by synonymy. **Panurginae**.

Zarhiopalea Hirashima, 1982a:57. Type species: *Palaeorhiza paradoxa* Hirashima, 1975, by original designation. [Palaeorhiza]. **Hylaeinae**.

Zebramegilla Brooks, 1988:502. Type species: *Anthophora albigena* Lepeletier, 1841, by original designation. [Amegilla]. **Anthophorini**.

Zikanapis Moure, 1945a:147. Type species: *Ptiloglossa zikani* Friese, 1925, by original designation. **Caupolicanini**.

Zikaniella Moure, 1941a:57. Type species: *Zikaniella crassiceps* Moure, 1941, by original designation. **Halictini**.

Zonalictus Michener, 1978a:513. Type species: *Halictus albofasciatus* Smith, 1879, by original designation. **Halictini**.

Zonalonia Moure and Michener, 1955b:250, 282. Type species: *Eucera cearensis* Ducke, 1910, by original designation. [Dasyhalonia]. **Eucerini**.

Zonamegilla Popov, 1950b:260. Type species: *Apis zonata* Linnaeus, 1758, by original designation. [Amegilla]. **Anthophorini**.

Zonandrena Hedicke, 1933:220. Type species: *Andrena flavipes* Panzer, 1799, by original designation. [Andrena]. **Andreninae**.

Zonohalonia Moure and Michener, 1955b:255, *lapsus* for *Zonalonia* Moure and Michener, 1955. [Dasyhalonia]. **Eucerini.**

Zonohirsuta Ma, 1938:300. Type species: *Xylocopa collaris* Lepeletier, 1841 (not *Apis collaris* Olivier, 1789) = *Xylocopa dejeanii* Lepeletier, 1841, by original designation. [Xylocopa]. **Xylocopini.**

Zonolonia Moure and Michener, 1955b:280, *lapsus* for *Zonalonia* Moure and Michener, 1955; the latter spelling was selected

by Michener and Moure, 1956:284, and is in accordance with the Code, 3rd ed., Art. 32(c)(ii). [Dasyhalonia]. **Eucerini.**

Zonomegachile Mitchell, 1980:72. Type species: *Megachile mariannae* Dalla Torre, 1896, by original designation. [Chrysosarus]. **Megachilini.**

Zosteranthidium Michener and Griswold, 1994a:310. Type species: *Nigranthidium tergofasciatum* Pasteels, 1984, by original designation. [Afranthidium]. **Anthidiini.**

SUPPLEMENT TO THE LIST OF FAMILY-GROUP NAMES

The authorship and dating of family-group names of bees were dealt with by Michener (1986a). These names, being coordinate at all levels (subtribe to superfamily), are attributed to the same author and date regardless of the rank and termination of the word [Code, 3rd ed., Art. 36a; also see Art. 11(f)(ii)]. Thus the Megachilini, Megachilinae, and Megachilidae all have the same author and date.

Since 1986, a few errors and omissions have been discovered. Moreover, a few new family-group names have been published. Below is a list of the additions and corrections, in the style of the earlier work, i.e., each entry consisting of the name, author, reference, type genus, and stem.

The items in the list are numbered in accordance with the system in the earlier list (Michener, 1986a). Thus, Item 30.1 could reasonably go after Item 30 in the earlier list, and such items are additions to the 1986 list. Items 3, 18, 79, 91, 112, and 123 are corrections rather than additional family-group names. They result from discovery of older usages than those cited in 1986.

3. *Prosopiariae* Fallén, 1813:32. *Prosopis*; stem: *Prosopid*-. 18. See 3.
- 30.1. *Perditinae* Robertson, 1922:160. *Perdita*; stem: *Perdit*-.
- 30.2. *Calliopsinae* Robertson, 1922:160. *Calliopsis*; stem: *Calliops*-.
- 30.3. *Anthemurginae* Robertson, 1922:160. *Anthemurgus*; stem: *Anthemurg*-.
- 30.4. *Protomeliturgini* Ruz, 1991:215. *Protomeliturga*; stem: *Protomeliturg*-.
- 45.1. *Oxystoglossini* Schrottky, 1909b:482. *Oxystoglossa*; stem: *Oxystogloss*-. As pointed out to me by Michael S. Engel, this name has priority over Augochlorini. It has not been used since it was casually published in 1909. We will request that it be rejected by the Commission in the interest of stability of nomenclature.
79. *Exomalopsis* Vachal, 1909b:7. *Exomalopsis*; stem: *Exomalops*-.
- 81.1. *Ancyloscelina* Roig-Alsina and Michener, 1993:159. *Ancyloscelis*; stem: *Ancyloscelid*-.
- 81.2. *Tapinotaspini* Roig-Alsina and Michener, 1993:159. *Tapinotaspis*; stem: *Tapinotaspid*-. The correct spelling is Tapinotaspidini. This tribal name was independently proposed by Moure, 1994b:306.
- 81.3. *Paratrapediini* Moure, 1994b:306. *Paratrapedia*; stem: *Paratraped*-.
- 81.4. *Teratognathini* Silveira, 1995:449. *Teratognatha*; stem: *Teratognath*-.
- 85.1. *Habropodini* Marikovskaya, 1976:688. *Habropoda*; stem: *Habropod*-.
91. *Melitomatae* Vachal, 1909b:7. *Melitoma*; stem: *Melitom*-. (See below.)
- 101.1. *Brachynomadini* Roig-Alsina and Michener, 1993:157. *Brachynomada*; stem: *Brachynomad*-.
- 104.1. *Hexepeolini* Roig-Alsina and Michener, 1993:157. *Hexepeolus*; stem: *Hexepeol*-.
112. *Neolarrini* Fox, 1894:302, 304. *Neolarra*; stem: *Neolarr*-.
- 119.9. *Eucondylopsinae* Friese, 1909a:99, 439. *Eucondylops*; stem: *Eucondylops*-.
- 120.1. *Manueliini* Sakagami and Michener, 1987:439. *Manuelia*; stem: *Manueli*-.
123. *Exaeretinae* Cockerell, 1908a:41. *Exaerete*; stem: *Exaeret*-.
- 125.1. *Eufrieseini* Moure, 1944b:12. *Eufriesea*; stem: *Eufriese*-.

The proper name for the Emphorini has been a subject of discussion. The name proposed by Robertson (1904) based on *Emphor* is senior to the name based on *Entechnia* proposed by Cockerell (1906d) and the name based on *Melitoma* proposed by Vachal (1909b) (91 above). The name *Entechniini* has not been used in recent decades, presumably because *Entechnia* is a junior subjective synonym of *Melitoma*, and before 1961 the family-group name based on *Entechnia* would have been rejected for that reason (Article 5, International Rules of Zoological Nomenclature, Proceedings of the Biological Society of Washington 39:75-104, 1926). The current confusion concerns the names based on *Emphor* and *Melitoma* and resulted from the

fact that *Emphor* is a junior subjective synonym of *Ptilothrix*. Moure (1944c) proposed Melitomini without explanation, but Moure (1947b:240) stated that the replacement of Emphorini by Melitomini was necessary because *Emphor* had become a synonym of *Ptilothrix*. The Rules at that time (reference above) required replacement of a family-group name based on a genus name that was a junior synonym. However, as shown above, the name Melitomini dates from Vachal (1909b), who listed *Emphor* as an included genus.

The Code, 3rd ed., Art. 40(b), states that if a family-group name was replaced before 1961 because the genus on which it was based is a junior synonym, and if the replacement has won general acceptance, it is to be maintained. The name based on *Emphor* was replaced by that based on *Melitoma* by Moure in 1944. Since that date, the two family-group names have been used with almost equal

frequency; an incomplete list prepared by A. Roig-Alsina in 1996 shows 13 usages of Emphorini and 9 usages of Melitomini since 1944. However, most usages in the present decade (1990's) employed the name Emphorini. Thus, current usage seems to favor Emphorini.

It is preferable to have a family-group name based on an accepted genus rather than on a junior synonym, an argument that favors Melitomini. For this reason and because a replacement for the name Emphorini was in fact appropriate in 1944 when Melitomini was proposed by Moure, the matter remains contentious. A request for a decision submitted to the Commission elicited the response that Emphorini is the appropriate name and that there is no need to go to the time and expense of publication in the Bulletin of Zoological Nomenclature and evaluation and decision by the Commission.

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ADDENDUM

After this paper was in proof, Dr. Donald B. Baker (University Museum, Oxford) kindly sent me commentaries on certain dates of publication. Whereas I have usually used widely accepted dates, Dr. Baker has indicated that the following are correct:

Author, date	Corrected Date
Agassiz, L. 1846.	1847
Guérin-Méneville, F. E. 1830.	pp. 1-24, 1830; pp. 25-471, 1831
Heer, O. 1850.	1849
Lepeletier de S. Fargeau, A. L. M. 1836.	1835
Morawitz, F. 1873a.	1874
Radoszkowski, O. 1868.	1867
Schenck, A. 1866.	1867
Schenck, A. 1973.	1874
Smith, F. 1858.	pp. 42-88 and pls. 1, 2, 1857; pp. 89-180, 1858
Spinola, M. 1838.	1839
Vachal, J. 1899.	1900
